

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319984

Luminaire Tested: **GAN-SA0D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66460 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

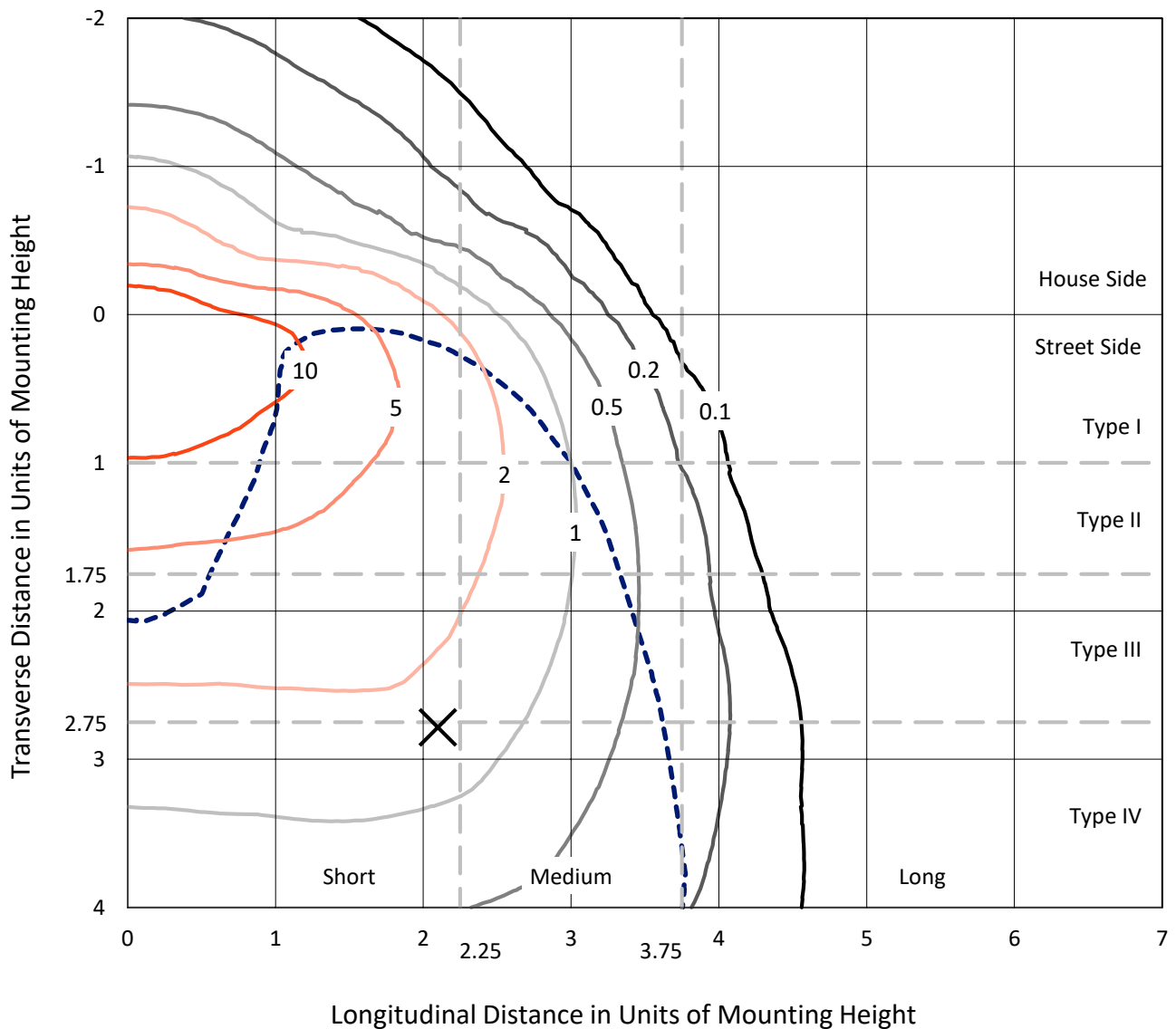




REPORT NUMBER: P319984
 CATALOG NUMBER: GAN-SA0D-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

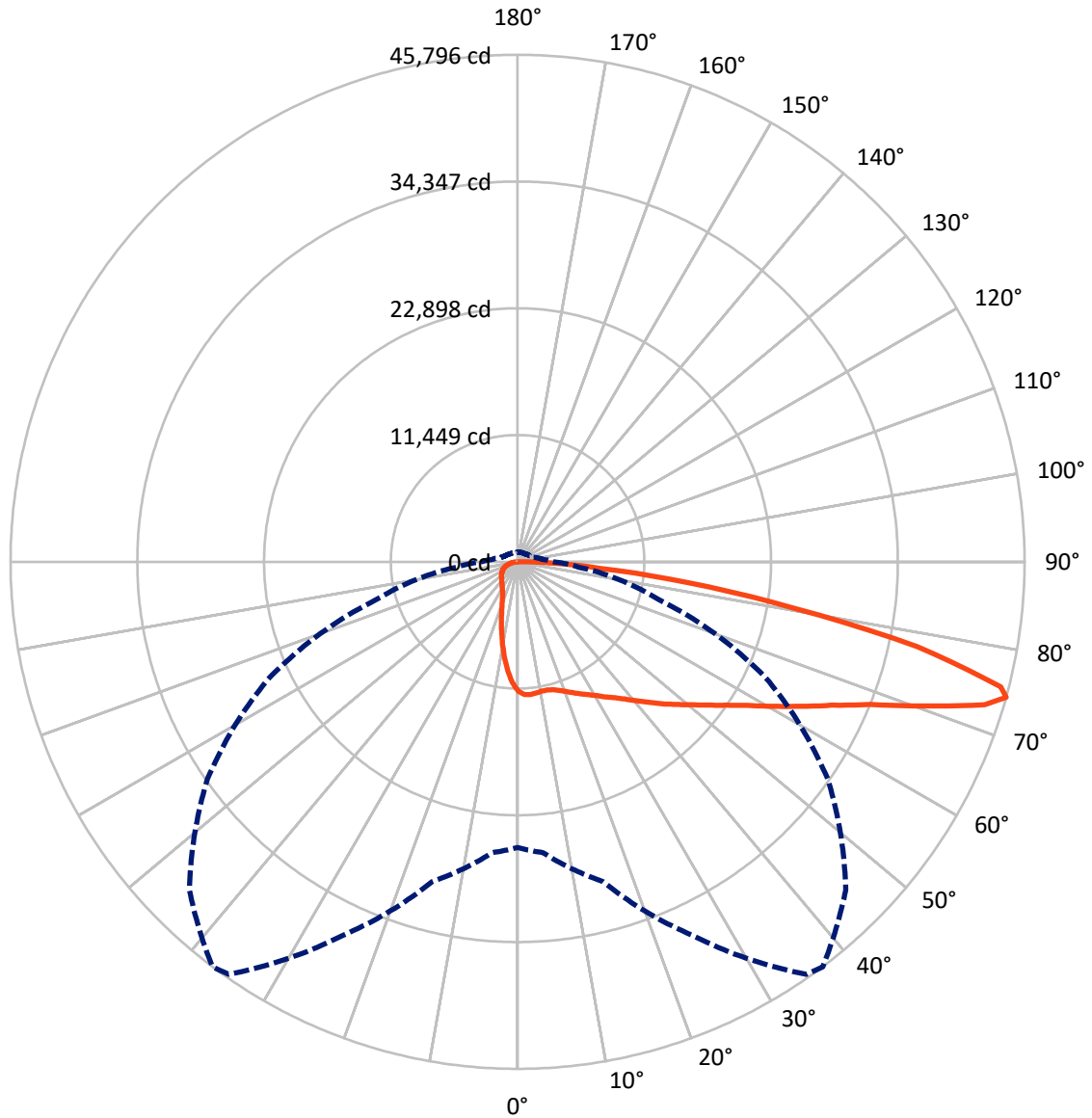
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type IV - Short - N/A

REPORT NUMBER: P319984
CATALOG NUMBER: GAN-SA0D-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P319984
 CATALOG NUMBER: GAN-SA0D-730-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9144.4	0.0	9144.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	57315.6	0.0	57315.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	66460.0	0.0	66460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.2	1.6
10°-20°	2643.2	4.0
20°-30°	4072.7	6.1
30°-40°	5922.3	8.9
40°-50°	8716.6	13.1
50°-60°	12240.9	18.4
60°-70°	15493.2	23.3
70°-80°	13642.4	20.5
80°-90°	2697.4	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	66460.0	100.0
0°-180°	66460.0	100.0

Coefficient of Utilization

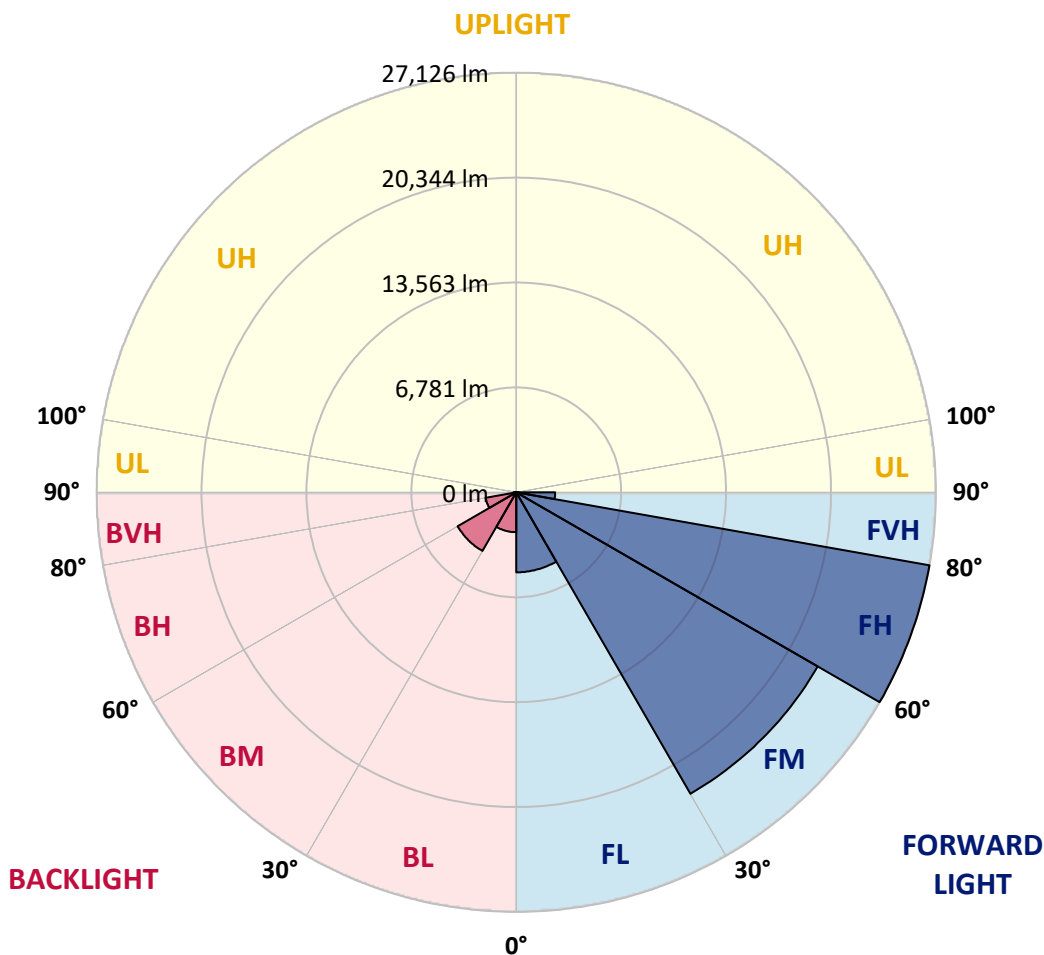


REPORT NUMBER: P319984
 CATALOG NUMBER: GAN-SA0D-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5171.4	7.8			
FM (30°-60°)	22503.9	33.9			
FH (60°-80°)	27125.6	40.8			G5
FVH (80°-90°)	2514.7	3.8			G5
BL (0°-30°)	2575.8	3.9	B4/5000		
BM (30°-60°)	4376.0	6.6	B3/5000		
BH (60°-80°)	2010.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	182.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





REPORT NUMBER: P319984

CATALOG NUMBER: GAN-SAOD-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0
2.5°	12110.3	12112.7	12110.3	12091.6	12047.1	12009.7	11979.2	11934.7	11836.4	11761.5	11649.1
5°	12225.0	12211.0	12201.6	12166.5	12096.3	12054.1	11995.6	11911.3	11749.8	11600.0	11417.4
7.5°	12171.2	12154.8	12133.7	12091.6	12012.0	11976.9	11894.9	11784.9	11590.6	11394.0	11131.8
10°	12005.0	12000.3	11990.9	11981.6	11913.7	11885.6	11810.7	11693.6	11501.6	11262.9	10956.2
12.5°	11820.0	11831.7	11869.2	11918.3	11887.9	11873.9	11827.0	11747.5	11550.8	11293.3	10923.4
15°	11703.0	11735.7	11836.4	11965.2	11990.9	11986.2	11974.5	11923.0	11714.7	11429.1	10998.3
17.5°	11663.2	11717.0	11909.0	12122.0	12196.9	12213.3	12218.0	12129.0	11897.3	11595.3	11075.6
20°	11735.7	11803.6	12084.6	12377.2	12496.6	12506.0	12484.9	12330.4	12070.5	11738.1	11117.7
22.5°	11955.8	12016.7	12367.8	12697.9	12833.7	12847.8	12784.5	12550.4	12253.1	11906.6	11176.2
25°	12379.5	12454.5	12805.6	13135.7	13205.9	13208.3	13117.0	12826.7	12491.9	12143.1	11302.6
27.5°	12932.0	13006.9	13323.0	13646.1	13608.6	13587.5	13463.5	13173.2	12803.3	12468.5	11527.4
30°	13547.7	13629.7	13929.3	14158.7	14069.8	14027.6	13927.0	13552.4	13236.4	12913.3	11871.5
32.5°	14184.5	14259.4	14521.6	14678.5	14566.1	14547.4	14395.2	14053.4	13800.6	13592.2	12428.7
35°	14837.7	14891.5	15149.0	15238.0	15088.1	15083.5	15041.3	14727.6	14568.4	14666.8	13238.7
37.5°	15504.9	15518.9	15739.0	15743.6	15699.2	15717.9	15762.4	15565.7	15610.2	15916.9	14292.2
40°	16099.5	16136.9	16296.1	16345.3	16422.6	16488.1	16710.5	16581.7	16925.9	17469.0	15603.2
42.5°	16539.6	16612.2	16867.4	16993.8	17244.3	17347.3	17661.0	17780.4	18473.3	19288.0	17162.3
45°	16911.8	17024.2	17433.9	17693.8	18117.5	18297.7	18747.2	19147.5	20222.1	21261.5	18803.4
47.5°	17314.5	17457.3	17970.0	18466.3	19042.2	19245.9	20062.9	20662.2	22087.9	23246.8	20350.9
50°	17906.8	18016.8	18517.8	19297.4	20016.1	20278.3	21409.0	22268.2	23984.2	25138.3	21692.3
52.5°	18733.2	18691.0	19114.8	20208.1	21172.6	21495.6	22846.4	23977.2	25906.2	26849.6	22825.4
55°	19564.3	19494.0	19791.3	21160.9	22521.0	22860.5	24429.0	25693.2	27734.6	28390.1	23693.9
57.5°	20489.0	20355.5	20606.0	22235.4	24056.8	24461.8	26201.2	27516.8	29532.5	29635.5	24246.4
60°	21441.8	21261.5	21542.5	23567.5	26006.9	26484.4	28275.4	29296.1	31227.4	30632.8	24424.3
62.5°	22275.2	22148.8	22581.9	25054.1	28205.1	28729.5	30312.1	31187.6	32899.0	31047.2	23782.9
65°	23003.3	23024.3	23773.5	26725.6	30656.2	31215.7	32648.5	33519.3	34214.6	30801.4	22282.2
67.5°	23871.8	23991.2	25269.4	28926.2	33741.7	34355.1	36047.7	36061.7	34949.7	29359.3	19327.8
70°	25138.3	25384.1	27327.2	31978.9	38128.9	38971.7	40278.0	37555.3	33917.3	25449.7	15207.5
72.5°	26262.0	26720.9	29516.1	35471.8	43475.9	44115.0	42752.5	36693.8	29602.7	19072.6	9474.3
74°	25805.5	26374.4	29914.1	37192.5	45489.2	45795.9	41916.7	34179.5	24681.8	13208.3	5506.2
75°	24822.3	25440.3	29333.5	37176.1	45234.0	45063.1	39898.7	31307.0	20327.4	9008.4	3663.8
77.5°	20032.5	20685.6	24716.9	31861.9	37089.5	36927.9	30649.2	21001.7	8903.1	2954.4	1861.1
80°	11646.8	12145.4	15343.3	20233.8	25009.6	25302.2	20156.5	10392.0	3502.2	1659.8	1261.8
82.5°	5173.7	5517.9	7411.8	10328.8	15092.8	15469.7	10555.9	5445.3	2163.1	1009.0	758.5
85°	3394.5	3649.7	4499.5	4918.6	7187.1	7444.6	5166.7	4239.7	1428.0	554.8	557.2
87.5°	2441.7	2687.5	3343.0	2919.3	3298.6	3123.0	2811.6	3923.6	573.6	316.0	187.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319984
 CATALOG NUMBER: GAN-SAOD-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0	11710.0
2.5°	11600.0	11562.5	11478.2	11319.0	11230.1	11155.2	11031.1	10958.5	10925.7	10923.4	10937.4
5°	11312.0	11225.4	11007.7	10740.8	10527.8	10333.4	10092.3	9947.2	9844.2	9783.3	9799.7
7.5°	10977.2	10841.5	10499.7	10073.6	9731.8	9354.9	8982.7	8760.3	8587.0	8458.3	8481.7
10°	10747.8	10560.5	10061.9	9448.5	8879.6	8331.8	7819.1	7512.5	7269.0	7081.7	7095.8
12.5°	10670.6	10417.7	9727.1	8907.7	8109.4	7360.3	6690.8	6220.2	5969.7	5756.7	5773.1
15°	10682.3	10342.8	9446.2	8420.8	7416.5	6473.0	5660.7	5110.5	4771.1	4623.6	4625.9
17.5°	10691.6	10256.2	9151.2	7898.7	6730.6	5644.3	4761.7	4204.5	3883.8	3748.0	3750.4
20°	10661.2	10115.7	8786.0	7299.4	6014.2	4883.5	4029.0	3556.1	3312.6	3207.3	3207.3
22.5°	10621.4	9949.5	8374.0	6697.8	5307.2	4223.3	3504.6	3144.0	3003.6	2933.4	2931.0
25°	10640.1	9825.4	7952.6	6079.7	4656.4	3696.5	3155.8	2917.0	2823.3	2778.8	2776.5
27.5°	10740.8	9766.9	7564.0	5464.0	4087.5	3300.9	2921.6	2753.1	2692.2	2664.1	2664.1
30°	10923.4	9766.9	7159.0	4939.6	3614.6	3008.3	2741.4	2626.7	2584.5	2565.8	2565.8
32.5°	11241.8	9820.8	6768.0	4419.9	3237.7	2778.8	2591.6	2514.3	2481.5	2472.2	2472.2
35°	11789.6	10003.4	6386.4	3928.3	2933.4	2591.6	2448.8	2404.3	2380.9	2378.5	2385.5
37.5°	12559.8	10375.6	6028.2	3565.4	2718.0	2439.4	2329.4	2294.2	2280.2	2291.9	2301.3
40°	13529.0	10881.3	5702.8	3237.7	2554.1	2317.7	2219.3	2195.9	2188.9	2205.3	2219.3
42.5°	14699.5	11564.8	5435.9	3001.2	2427.7	2214.6	2125.7	2097.6	2090.6	2109.3	2128.0
45°	15966.0	12299.9	5248.7	2825.7	2329.4	2137.4	2043.7	2013.3	1999.3	2008.6	2029.7
47.5°	17117.8	12995.2	5173.7	2701.6	2235.7	2071.8	1971.2	1933.7	1910.3	1905.6	1922.0
50°	18089.4	13512.6	5208.9	2626.7	2160.8	1999.3	1900.9	1858.8	1823.7	1802.6	1814.3
52.5°	18796.4	13838.0	5241.6	2593.9	2102.3	1919.7	1823.7	1783.9	1737.1	1702.0	1702.0
55°	19309.1	13912.9	5169.1	2568.1	2057.8	1833.1	1737.1	1699.6	1652.8	1613.0	1608.3
57.5°	19510.4	13702.2	4899.8	2530.7	2027.4	1751.1	1645.8	1617.7	1577.9	1531.1	1528.7
60°	19238.9	13051.4	4380.1	2451.1	1987.6	1683.2	1554.5	1535.7	1517.0	1472.5	1470.2
62.5°	18147.9	11623.4	3708.2	2289.6	1908.0	1610.7	1470.2	1479.6	1481.9	1451.5	1446.8
65°	16169.7	9661.6	3052.7	2078.9	1788.6	1524.0	1383.6	1428.0	1453.8	1449.1	1442.1
67.5°	13294.9	7519.5	2586.9	1856.5	1631.7	1404.6	1289.9	1341.4	1362.5	1378.9	1374.2
70°	9867.6	5302.5	2139.7	1622.4	1442.1	1264.2	1168.2	1193.9	1179.9	1198.6	1205.6
72.5°	5501.5	3181.5	1744.1	1388.3	1245.4	1100.3	1032.4	1027.7	997.3	997.3	997.3
74°	3300.9	2334.0	1533.4	1243.1	1126.1	992.6	934.1	913.0	884.9	887.3	884.9
75°	2654.8	2006.3	1407.0	1147.1	1041.8	929.4	870.9	842.8	821.7	821.7	819.4
77.5°	1676.2	1524.0	1133.1	913.0	833.4	765.5	725.7	688.3	688.3	685.9	683.6
80°	1266.5	1212.7	882.6	690.6	639.1	587.6	561.9	545.5	545.5	552.5	550.1
82.5°	868.5	913.0	620.4	482.3	456.5	419.1	414.4	416.7	409.7	400.3	398.0
85°	634.4	685.9	419.1	304.3	278.6	255.2	273.9	283.3	271.6	250.5	241.1
87.5°	243.5	449.5	224.7	126.4	117.1	100.7	117.1	121.7	131.1	103.0	105.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)