

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: P321303

Luminaire Tested: **GAN-SA9D-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55990 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

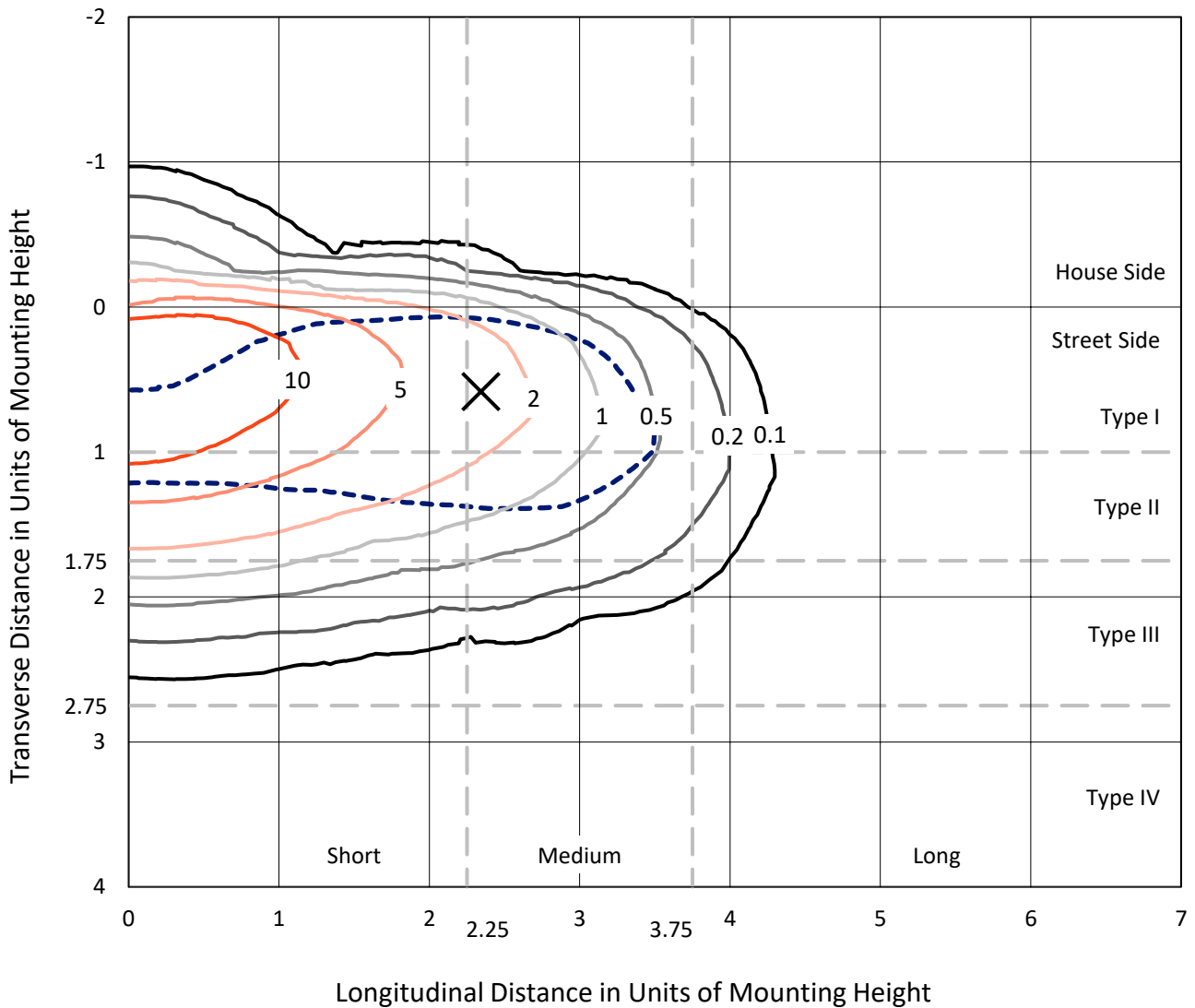
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

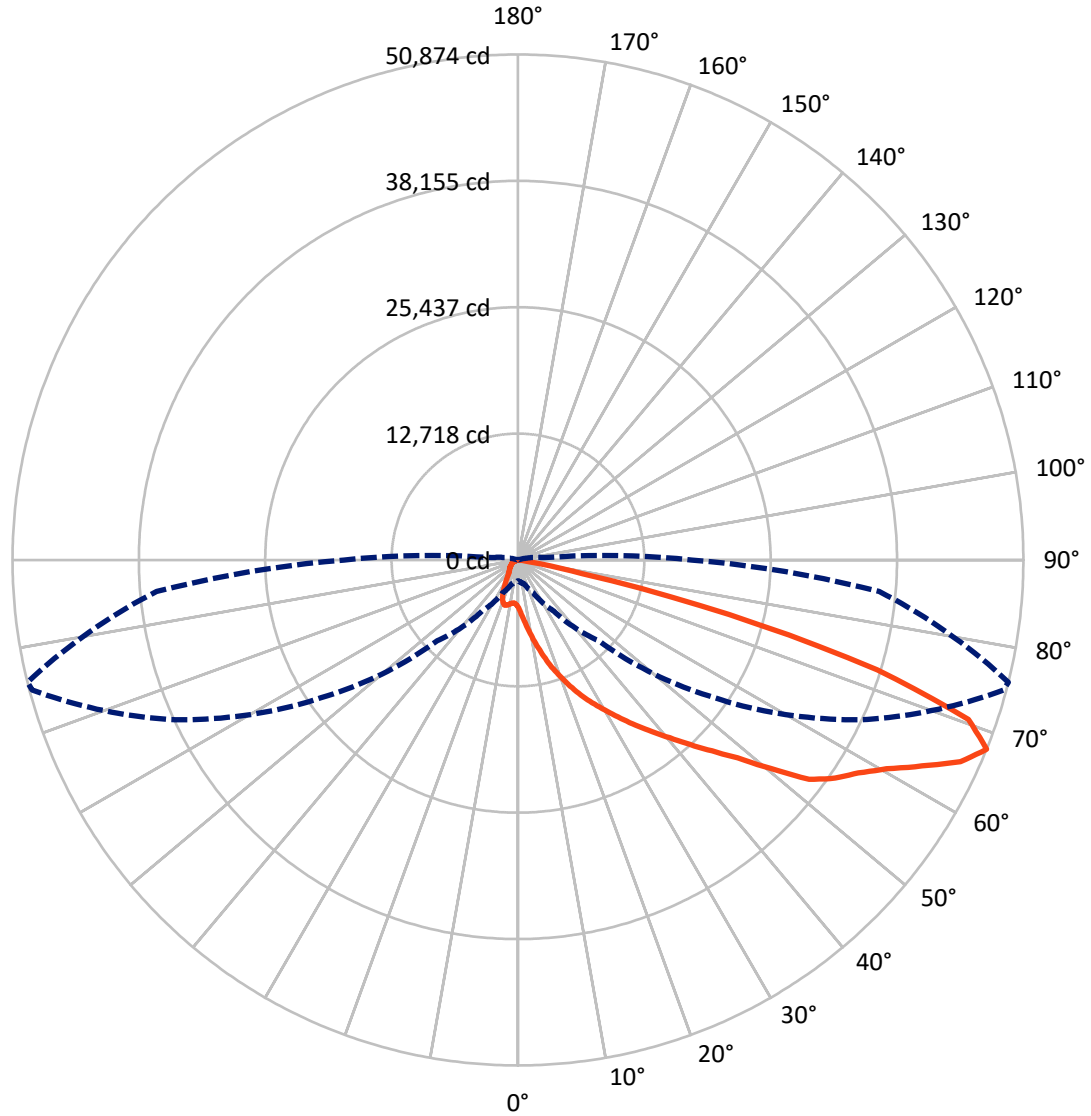
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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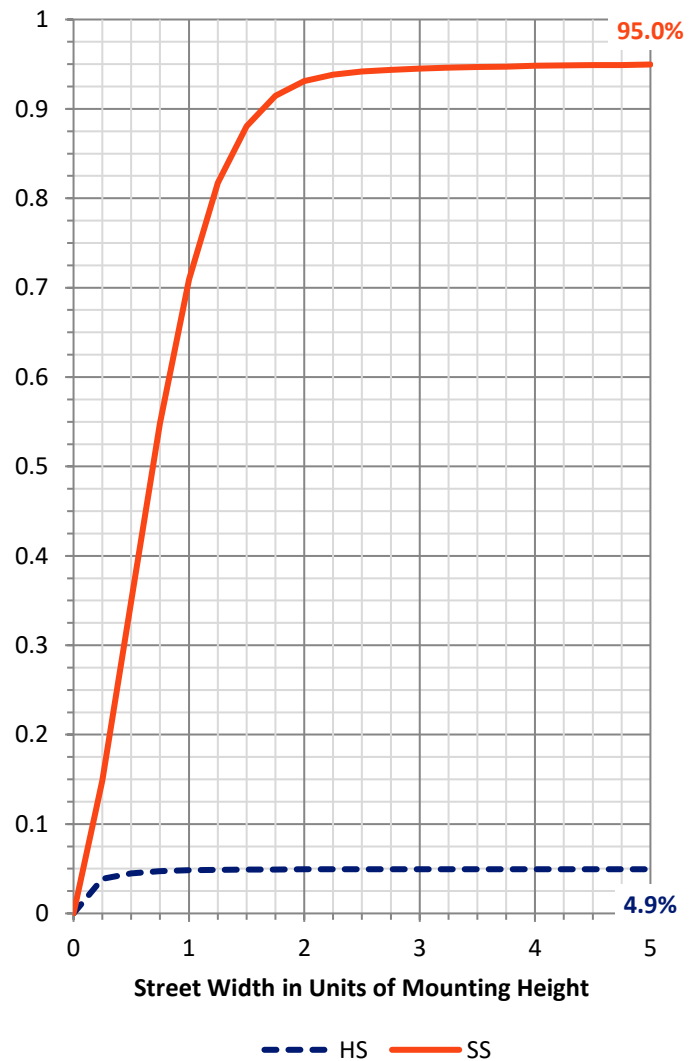
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2780.3	0.0	2780.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	53209.7	0.0	53209.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	55990.0	0.0	55990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.6	1.1
10°-20°	2341.2	4.2
20°-30°	4763.6	8.5
30°-40°	8268.1	14.8
40°-50°	11681.8	20.9
50°-60°	13247.7	23.7
60°-70°	10987.7	19.6
70°-80°	3980.1	7.1
80°-90°	129.1	0.2
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°	55990.0	100.0
0°-180°	55990.0	100.0

Coefficient of Utilization

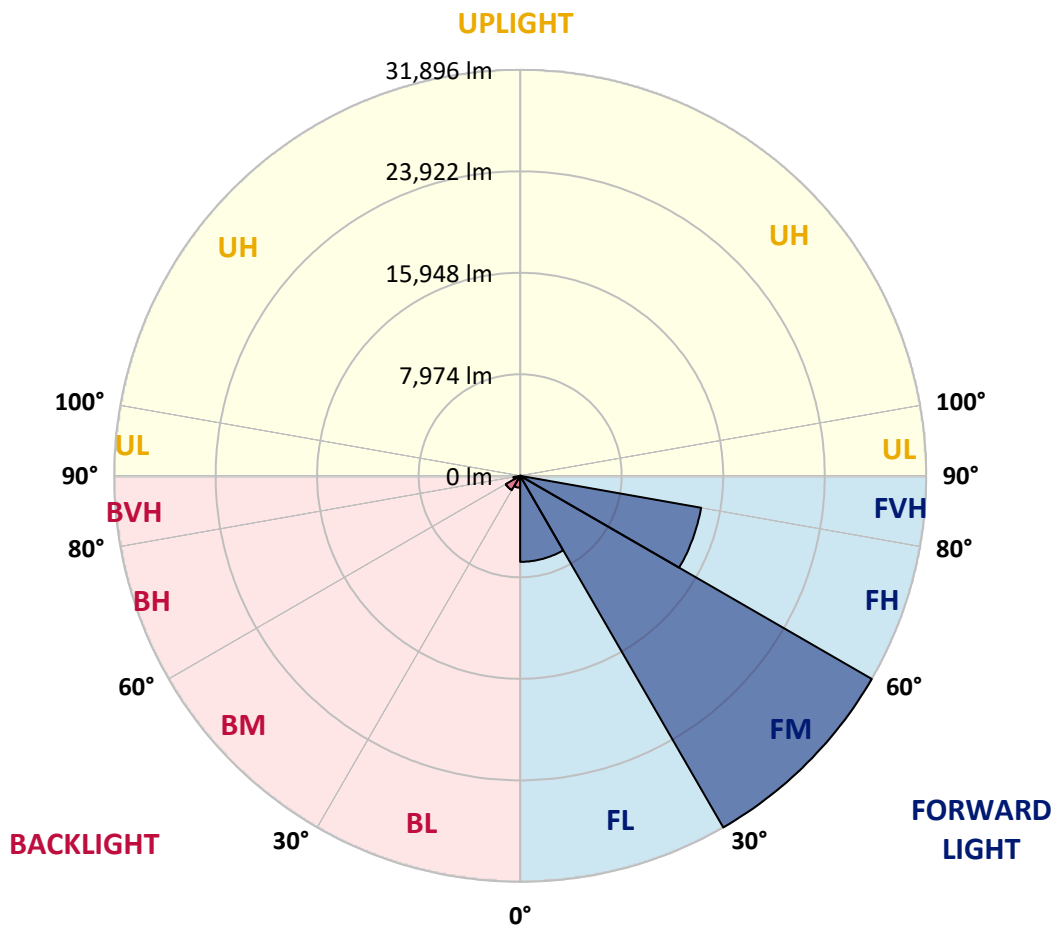


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6757.8	12.1			
FM (30°-60°)	31896.4	57.0			
FH (60°-80°)	14430.5	25.8			G5
FVH (80°-90°)	125.0	0.2			G2/225
BL (0°-30°)	937.7	1.7	B2/1000		
BM (30°-60°)	1301.3	2.3	B2/2500		
BH (60°-80°)	537.3	1.0	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6
2.5°	7090.0	6930.6	6967.3	6864.3	6677.9	6295.1	5968.9	5659.7	5299.1	5286.8	4990.0
5°	9560.5	9425.5	9408.4	9199.8	8861.3	8211.2	7578.2	6857.0	6052.3	5993.4	5362.9
7.5°	11802.8	11694.8	11655.6	11407.8	10777.3	10144.4	9320.1	8260.2	7001.7	6893.8	5865.8
10°	13525.0	13473.5	13483.3	13306.7	12766.9	12178.1	11096.2	9744.5	8078.7	7911.9	6469.3
12.5°	14830.2	14842.4	14930.7	14822.8	14521.0	14084.4	12928.8	11326.8	9271.0	9042.8	7158.7
15°	15789.4	15850.7	16012.6	16147.6	16125.5	15747.7	14687.9	12933.8	10536.9	10284.2	7926.6
17.5°	16410.1	16478.8	16714.3	17013.6	17288.3	17200.0	16385.5	14484.2	11817.5	11525.6	8748.4
20°	16954.7	17035.7	17288.3	17683.3	18196.1	18306.5	17771.6	15988.1	13095.7	12739.9	9597.3
22.5°	18134.7	18132.3	18286.8	18517.4	19005.7	19290.2	18951.7	17384.0	14359.1	13988.7	10463.3
25°	20269.1	20188.1	20134.2	19952.6	20060.6	20237.2	20048.3	18689.2	15629.9	15254.6	11341.6
27.5°	22805.8	22854.9	22418.2	21930.0	21552.2	21370.6	21061.5	19898.7	16851.7	16439.5	12200.2
30°	25482.3	25497.1	24981.9	24358.7	23527.1	22837.7	22302.9	21054.2	18107.7	17658.8	13034.3
32.5°	27896.4	27800.7	27290.4	26441.6	25391.6	24616.3	23505.0	22344.6	19437.4	19003.2	13961.7
35°	29810.0	29697.1	29076.4	28303.6	27214.4	26434.2	25097.2	23632.6	20835.8	20411.4	14891.5
37.5°	31208.3	31075.9	30438.0	29643.1	28703.5	28249.7	26944.5	25033.4	22361.8	21905.4	15870.3
40°	31694.1	31578.8	31178.9	30597.5	29841.8	29738.8	28904.7	26645.2	24022.6	23536.9	16979.2
42.5°	31404.6	31291.7	31149.5	30953.2	30639.2	30737.3	30754.5	28482.7	25867.5	25389.1	18203.4
45°	30256.5	30155.9	30303.1	30590.1	30980.2	31465.9	32442.3	30457.6	27928.3	27418.0	19619.0
47.5°	28566.1	28492.5	28899.8	29616.1	30756.9	32096.4	33985.5	32533.1	30241.7	29768.2	21385.3
50°	26161.9	26149.6	26964.1	28271.7	30025.8	32400.6	35580.1	34893.2	33455.5	32957.5	23841.1
52.5°	22418.2	22442.7	24044.7	26137.4	28742.8	32194.6	36605.6	37925.4	37194.4	36676.7	25968.1
55°	18853.6	19000.7	20136.6	23154.2	26775.2	31429.1	36958.8	39341.0	39257.6	38766.9	27150.6
57.5°	15362.5	15629.9	16724.1	19542.9	23902.4	29665.2	36765.0	39954.3	40793.3	40418.0	28710.9
60°	11579.5	11702.2	12963.2	15598.0	20215.1	26446.5	35359.3	40288.0	42893.4	42633.3	30975.3
62.5°	7367.2	7673.9	8792.6	11334.2	15740.3	21976.6	32989.4	40283.1	45520.8	45663.1	33897.1
65°	3881.1	4239.3	4833.0	7023.8	10816.6	16984.1	29424.8	39905.3	48744.5	48943.2	36181.2
67.5°	2092.7	2195.7	2509.7	3645.6	6273.1	11505.9	24187.0	38040.7	50611.4	50873.9	36500.1
70°	1530.9	1587.3	1705.0	2016.6	3157.4	6682.8	17649.0	33813.7	48204.7	48106.6	32430.1
72.5°	1175.1	1263.4	1351.8	1476.9	1815.4	3567.1	10988.3	26478.4	38462.7	37815.0	24241.0
75°	927.3	942.1	1067.2	1180.0	1361.6	2031.3	4879.6	15421.4	23475.6	21942.2	12570.7
77.5°	740.9	750.7	824.3	922.4	1094.2	1334.6	1511.2	6067.0	7494.8	6687.7	2728.1
80°	439.1	463.7	613.3	711.5	907.7	841.5	552.0	1317.4	1170.2	1059.8	458.8
82.5°	245.3	265.0	345.9	561.8	632.9	402.3	274.8	355.7	274.8	267.4	130.0
85°	0.0	12.3	223.2	348.4	257.6	88.3	115.3	117.8	81.0	76.1	51.5
87.5°	0.0	0.0	68.7	66.2	9.8	14.7	27.0	39.3	31.9	31.9	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6
2.5°	4842.8	4710.3	4460.1	4214.8	4008.7	3839.4	3687.3	3626.0	3576.9	3569.5	3530.3
5°	5058.7	4791.3	4312.9	3920.4	3657.9	3471.4	3311.9	3213.8	3137.8	3108.3	3081.3
7.5°	5385.0	4980.2	4293.3	3841.9	3527.8	3213.8	2919.4	2600.5	2401.8	2325.7	2281.6
10°	5782.4	5230.4	4366.9	3819.8	3270.2	2607.8	2119.6	1714.9	1550.5	1496.5	1481.8
12.5°	6246.1	5542.0	4494.4	3682.4	2720.7	1852.2	1462.2	1324.8	1288.0	1270.8	1270.8
15°	6778.4	5883.0	4585.2	3285.0	2011.7	1400.8	1265.9	1202.1	1162.9	1140.8	1143.2
17.5°	7323.1	6216.6	4541.0	2708.4	1484.2	1246.3	1145.7	1077.0	1023.0	1000.9	996.0
20°	7872.6	6525.8	4295.7	2016.6	1256.1	1131.0	1018.1	942.1	888.1	866.0	861.1
22.5°	8441.8	6788.3	3863.9	1479.3	1128.5	1003.4	893.0	816.9	765.4	745.8	736.0
25°	8996.2	7001.7	3260.4	1197.2	1008.3	883.2	777.7	706.5	659.9	640.3	637.9
27.5°	9513.9	7136.6	2561.2	1057.4	902.8	775.2	679.6	615.8	576.5	561.8	559.4
30°	9980.0	7148.9	1893.9	954.3	809.6	682.0	593.7	537.3	502.9	488.2	483.3
32.5°	10451.0	7045.9	1378.8	861.1	723.7	601.1	515.2	471.0	446.5	434.2	434.2
35°	10895.1	6807.9	1074.5	780.1	640.3	522.6	453.9	422.0	407.2	395.0	395.0
37.5°	11329.3	6466.9	912.6	709.0	561.8	456.3	399.9	380.3	368.0	355.7	355.7
40°	11770.9	6037.6	829.2	642.8	498.0	404.8	355.7	338.6	326.3	316.5	314.0
42.5°	12313.1	5542.0	775.2	581.4	441.6	358.2	314.0	294.4	284.6	274.8	269.9
45°	12941.1	5115.1	731.1	520.1	395.0	318.9	272.3	252.7	238.0	225.7	223.2
47.5°	13846.4	4806.0	672.2	453.9	350.8	277.2	235.5	213.4	191.4	179.1	176.6
50°	15001.9	4550.9	596.1	395.0	306.7	235.5	196.3	169.3	149.7	137.4	137.4
52.5°	15576.0	4217.2	527.5	343.5	257.6	198.7	159.5	127.6	117.8	105.5	105.5
55°	15806.6	3962.1	458.8	291.9	213.4	164.4	125.1	98.1	90.8	83.4	81.0
57.5°	16454.2	3888.5	399.9	247.8	176.6	130.0	95.7	73.6	68.7	58.9	58.9
60°	17496.9	3925.3	345.9	211.0	142.3	100.6	71.1	56.4	51.5	41.7	41.7
62.5°	18622.9	3878.7	291.9	181.5	110.4	73.6	49.1	41.7	41.7	24.5	22.1
65°	18838.8	3454.2	250.2	149.7	85.9	54.0	31.9	27.0	36.8	4.9	0.0
67.5°	17484.6	2679.0	215.9	115.3	63.8	41.7	24.5	12.3	31.9	0.0	0.0
70°	13981.3	1702.6	174.2	83.4	49.1	34.3	19.6	4.9	24.5	0.0	0.0
72.5°	9886.8	988.7	137.4	58.9	41.7	27.0	14.7	0.0	14.7	0.0	0.0
75°	4999.8	527.5	85.9	44.2	31.9	19.6	9.8	0.0	2.5	0.0	0.0
77.5°	1081.9	245.3	54.0	31.9	22.1	12.3	4.9	0.0	0.0	0.0	0.0
80°	235.5	107.9	34.3	19.6	12.3	7.4	0.0	0.0	0.0	0.0	0.0
82.5°	85.9	56.4	17.2	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.6	29.4	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.5	9.8	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)