

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: P532376

Luminaire Tested: **GLAN-SA7D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39598 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

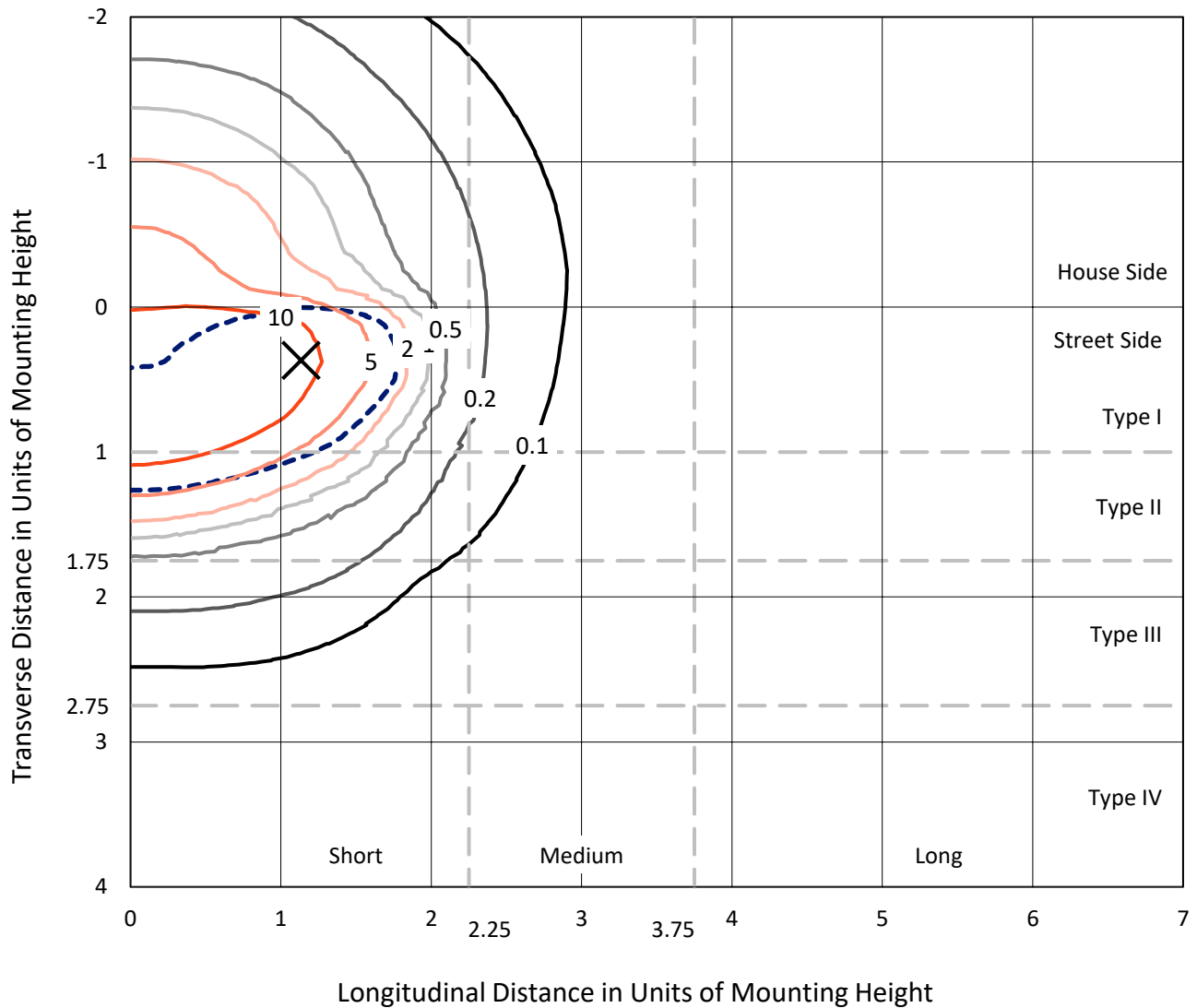
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532376
 CATALOG NUMBER: GLAN-SA7D-727-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

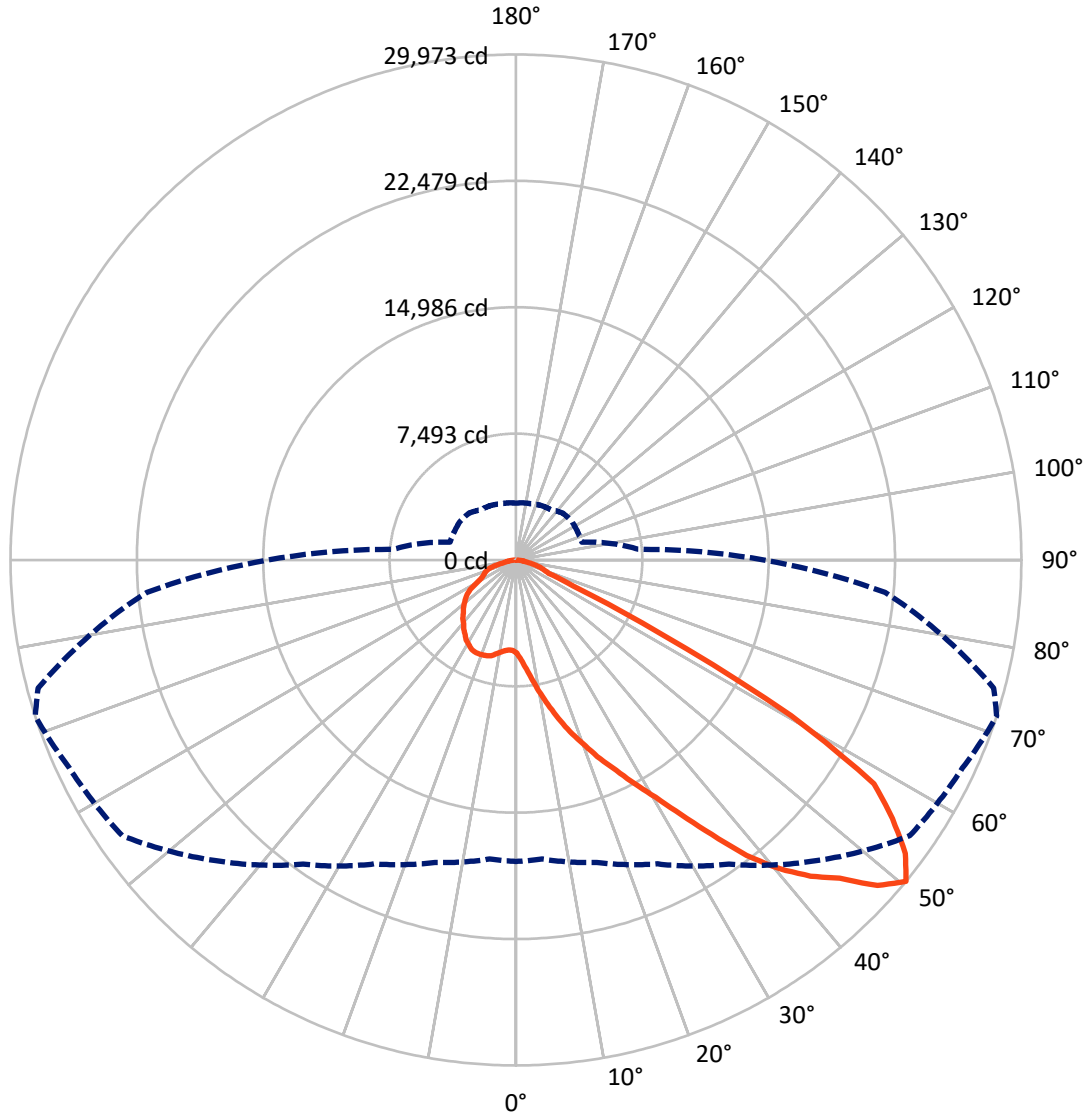
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - N/A

REPORT NUMBER: P532376
CATALOG NUMBER: GLAN-SA7D-727-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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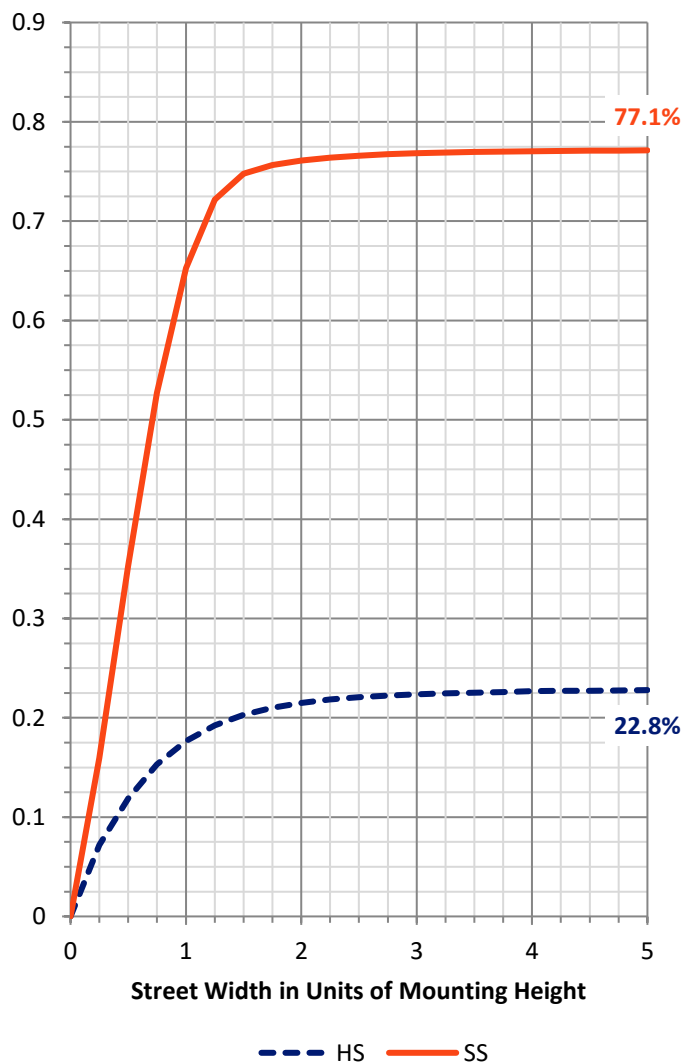
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9072.1	0.0	9072.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	30525.9	0.0	30525.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	39598.0	0.0	39598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.4	1.6
10°-20°	2423.9	6.1
20°-30°	4699.8	11.9
30°-40°	7786.0	19.7
40°-50°	10894.2	27.5
50°-60°	9190.7	23.2
60°-70°	2801.3	7.1
70°-80°	982.8	2.5
80°-90°	170.9	0.4
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°	39598.0	100.0
0°-180°	39598.0	100.0

Coefficient of Utilization

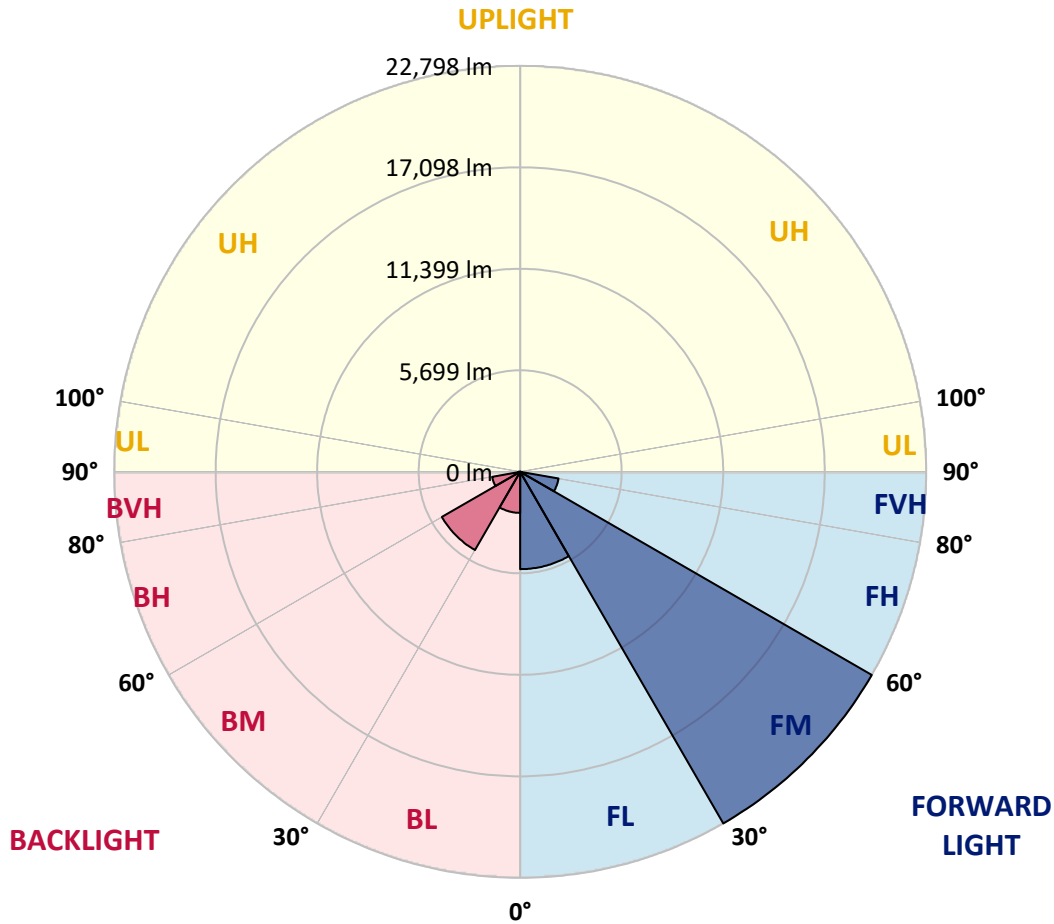


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5465.9	13.8			
FM (30°-60°)	22797.6	57.6			
FH (60°-80°)	2185.8	5.5			G2/5000
FVH (80°-90°)	76.5	0.2			G1/100
BL (0°-30°)	2306.2	5.8	B3/2500		
BM (30°-60°)	5073.3	12.8	B4/8500		
BH (60°-80°)	1598.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	94.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4
2.5°	7090.1	7046.0	6913.7	6869.6	6712.9	6428.7	6330.7	6041.6	5919.1	5806.4	5674.1
5°	8966.8	8761.0	8746.3	8496.4	8133.8	7923.1	7295.9	6874.5	6487.5	6291.5	5928.9
7.5°	10162.4	10167.3	10167.3	9961.5	9672.4	9138.3	8574.8	7815.3	7232.2	6943.1	6325.8
10°	11299.2	11201.2	11147.3	11127.7	10931.7	10412.3	9809.6	8868.8	8070.1	7732.0	6624.7
12.5°	12102.7	12019.4	12141.9	12078.2	11936.1	11598.0	11029.7	9956.6	8957.0	8501.3	7104.8
15°	12484.9	12543.7	12641.7	12818.1	12754.4	12627.0	11999.8	11073.8	9912.5	9398.0	7531.1
17.5°	13072.9	12911.2	13028.8	13249.3	13425.7	13366.9	13009.2	11882.2	10858.2	10226.1	8104.4
20°	13484.5	13391.4	13450.2	13705.0	13837.3	14170.5	13984.3	12940.6	11764.6	11098.3	8780.6
22.5°	14660.5	14523.3	14332.2	14371.4	14420.4	14655.6	14699.7	14101.9	12818.1	12112.5	9422.5
25°	16110.8	15983.4	15758.1	15527.8	15385.7	15341.6	15493.5	15013.3	13827.5	13097.4	10113.4
27.5°	17708.2	17492.6	17350.5	16875.2	16493.0	16434.2	16360.7	16101.0	15023.1	14234.2	10892.5
30°	19261.5	19090.0	18898.9	18139.4	17742.5	17678.8	17316.2	17389.7	16321.5	15444.5	11774.4
32.5°	20437.5	20452.2	20016.1	19442.8	19070.4	18732.3	18600.0	18810.7	17987.5	17281.9	12759.3
35°	21388.0	21432.1	21015.6	20496.3	20094.5	20329.7	20270.9	20368.9	19976.9	19114.5	13905.9
37.5°	22314.1	22093.6	21647.7	21397.8	21187.1	21574.2	22074.0	22157.3	22230.8	21216.5	15238.7
40°	22466.0	22485.6	22225.9	22402.3	22137.7	22720.8	23882.1	23774.3	24073.2	23186.3	16684.1
42.5°	22250.4	22294.5	22397.4	22647.3	23284.3	23985.0	25709.7	25268.7	25631.3	24842.5	18090.4
45°	21897.6	21716.3	21843.7	22794.3	23896.8	25454.9	27380.6	27037.6	26920.0	26258.5	19766.2
47.5°	20212.1	20398.3	20795.1	21966.2	23622.4	25709.7	28566.4	28488.0	28840.8	28375.3	21290.0
50°	17874.8	17801.3	18565.7	19883.8	22020.1	25209.9	28502.7	29213.2	29972.6	29325.9	21971.1
52.5°	13386.5	13778.5	14435.1	16071.6	19119.4	22485.6	27111.1	28296.9	28914.3	28777.1	21422.3
55°	8462.1	8579.7	8976.6	10921.9	13665.8	18046.3	23240.2	25989.0	27091.5	27606.0	20917.6
57.5°	4111.0	3890.5	4375.6	5938.7	7893.7	12137.0	17923.8	22637.5	25033.6	25964.5	19820.1
60°	2146.2	2229.5	2420.5	2979.1	4081.6	6301.3	11171.8	15086.8	18747.0	20177.8	15023.1
62.5°	1778.7	1808.1	1935.5	2214.8	2714.5	3625.9	5703.5	7354.7	9559.7	10848.4	8545.4
65°	1509.2	1523.9	1661.1	1847.3	2165.8	2552.8	2935.0	3072.2	3719.0	3817.0	3037.9
67.5°	1259.3	1274.0	1421.0	1597.4	1803.2	1906.1	2004.1	1994.3	2067.8	2038.4	2033.5
70°	970.2	984.9	1136.8	1323.0	1425.9	1367.1	1670.9	1739.5	1768.9	1793.4	1832.6
72.5°	700.7	730.1	847.7	980.0	926.1	1063.3	1376.9	1479.8	1519.0	1533.7	1582.7
75°	509.6	519.4	548.8	509.6	588.0	739.9	970.2	1097.6	1146.6	1161.3	1234.8
77.5°	225.4	230.3	235.2	294.0	377.3	460.6	578.2	681.1	749.7	769.3	788.9
80°	117.6	122.5	151.9	200.9	269.5	338.1	421.4	480.2	524.3	529.2	548.8
82.5°	73.5	78.4	107.8	142.1	191.1	249.9	308.7	357.7	392.0	396.9	401.8
85°	34.3	44.1	63.7	88.2	127.4	161.7	166.6	142.1	151.9	156.8	147.0
87.5°	9.8	14.7	19.6	14.7	19.6	19.6	24.5	29.4	29.4	29.4	34.3
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: P532376

CATALOG NUMBER: GLAN-SA7D-727-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4	5512.4
2.5°	5600.6	5556.5	5385.0	5321.3	5154.7	5184.1	5095.9	5091.0	5071.4	5066.5	5061.6
5°	5737.8	5600.6	5394.8	5238.0	5144.9	5135.1	5071.4	5071.4	5091.0	5105.7	5071.4
7.5°	5963.2	5806.4	5458.5	5311.5	5228.2	5213.5	5169.4	5135.1	5179.2	5164.5	5125.3
10°	6222.9	5948.5	5581.0	5453.6	5316.4	5282.1	5282.1	5296.8	5223.3	5247.8	5208.6
12.5°	6512.0	6144.5	5737.8	5590.8	5429.1	5409.5	5399.7	5291.9	5331.1	5311.5	5213.5
15°	6879.4	6369.9	5938.7	5688.8	5551.6	5463.4	5336.0	5316.4	5291.9	5242.9	5198.8
17.5°	7276.3	6614.9	6031.8	5718.2	5512.4	5448.7	5350.7	5247.8	5174.3	5184.1	5149.8
20°	7614.4	6840.3	6066.1	5747.6	5483.0	5360.5	5208.6	5144.9	5066.5	5061.6	5056.7
22.5°	8016.2	7144.0	6115.1	5669.2	5394.8	5267.4	5164.5	5051.8	4997.9	4929.3	4963.6
25°	8496.4	7261.6	6124.9	5625.1	5331.1	5105.7	5051.8	4929.3	4909.7	4811.7	4831.3
27.5°	8844.3	7325.3	6046.5	5487.9	5184.1	5012.6	4914.6	4826.4	4792.1	4718.6	4699.0
30°	9309.8	7423.3	5879.9	5316.4	5037.1	4846.0	4787.2	4767.6	4669.6	4591.2	4581.4
32.5°	9839.0	7487.0	5772.1	5140.0	4885.2	4738.2	4767.6	4674.5	4552.0	4483.4	4463.8
35°	10260.4	7511.5	5502.6	4939.1	4782.3	4689.2	4654.9	4635.3	4458.9	4395.2	4346.2
37.5°	10902.3	7457.6	5277.2	4797.0	4669.6	4635.3	4605.9	4473.6	4272.7	4179.6	4111.0
40°	11651.9	7442.9	4988.1	4596.1	4561.8	4601.0	4512.8	4307.0	4027.7	3924.8	3875.8
42.5°	12372.2	7545.8	4806.8	4488.3	4444.2	4458.9	4336.4	4027.7	3890.5	3831.7	3753.3
45°	13577.6	7761.4	4507.9	4321.7	4302.1	4292.3	4145.3	3821.9	3743.5	3670.0	3655.3
47.5°	14665.4	7619.3	4316.8	4150.2	4169.8	4115.9	3802.3	3699.4	3611.2	3537.7	3513.2
50°	14729.1	7281.2	4047.3	4017.9	4022.8	3929.7	3630.8	3562.2	3449.5	3400.5	3366.2
52.5°	14395.9	6727.6	3797.4	3807.2	3821.9	3670.0	3420.1	3371.1	3278.0	3209.4	3189.8
55°	13460.0	5865.2	3552.4	3591.6	3630.8	3341.7	3263.3	3140.8	3067.3	2969.3	2974.2
57.5°	11857.7	4723.5	3209.4	3273.1	3356.4	3037.9	2979.1	2827.2	2719.4	2641.0	2631.2
60°	7947.6	3361.3	2694.9	2719.4	2905.6	2778.2	2773.3	2621.4	2474.4	2405.8	2366.6
62.5°	4689.2	2567.5	2327.4	2302.9	2298.0	2371.5	2494.0	2440.1	2249.1	2116.8	2156.0
65°	2454.8	2219.7	2165.8	2082.5	2033.5	2013.9	2107.0	2131.5	2004.1	1862.0	1852.2
67.5°	2062.9	2062.9	2018.8	1989.4	1920.8	1837.5	1778.7	1700.3	1680.7	1641.5	1592.5
70°	1876.7	1925.7	1911.0	1842.4	1783.6	1690.5	1538.6	1411.2	1288.7	1244.6	1274.0
72.5°	1636.6	1685.6	1685.6	1651.3	1572.9	1430.8	1283.8	1136.8	1033.9	955.5	945.7
75°	1259.3	1283.8	1342.6	1303.4	1200.5	1112.3	960.4	808.5	710.5	637.0	622.3
77.5°	803.6	842.8	842.8	837.9	764.4	681.1	583.1	475.3	401.8	347.9	333.2
80°	534.1	558.6	578.2	558.6	509.6	445.9	372.4	298.9	245.0	200.9	191.1
82.5°	392.0	421.4	436.1	416.5	367.5	318.5	264.6	210.7	156.8	122.5	112.7
85°	151.9	156.8	176.4	210.7	205.8	200.9	161.7	117.6	88.2	63.7	58.8
87.5°	39.2	34.3	39.2	39.2	34.3	29.4	29.4	29.4	29.4	14.7	19.6
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)