

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: McGRAW-EDISON

Report Number: P322373

Luminaire Tested: **GLEON-SA9C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33874 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

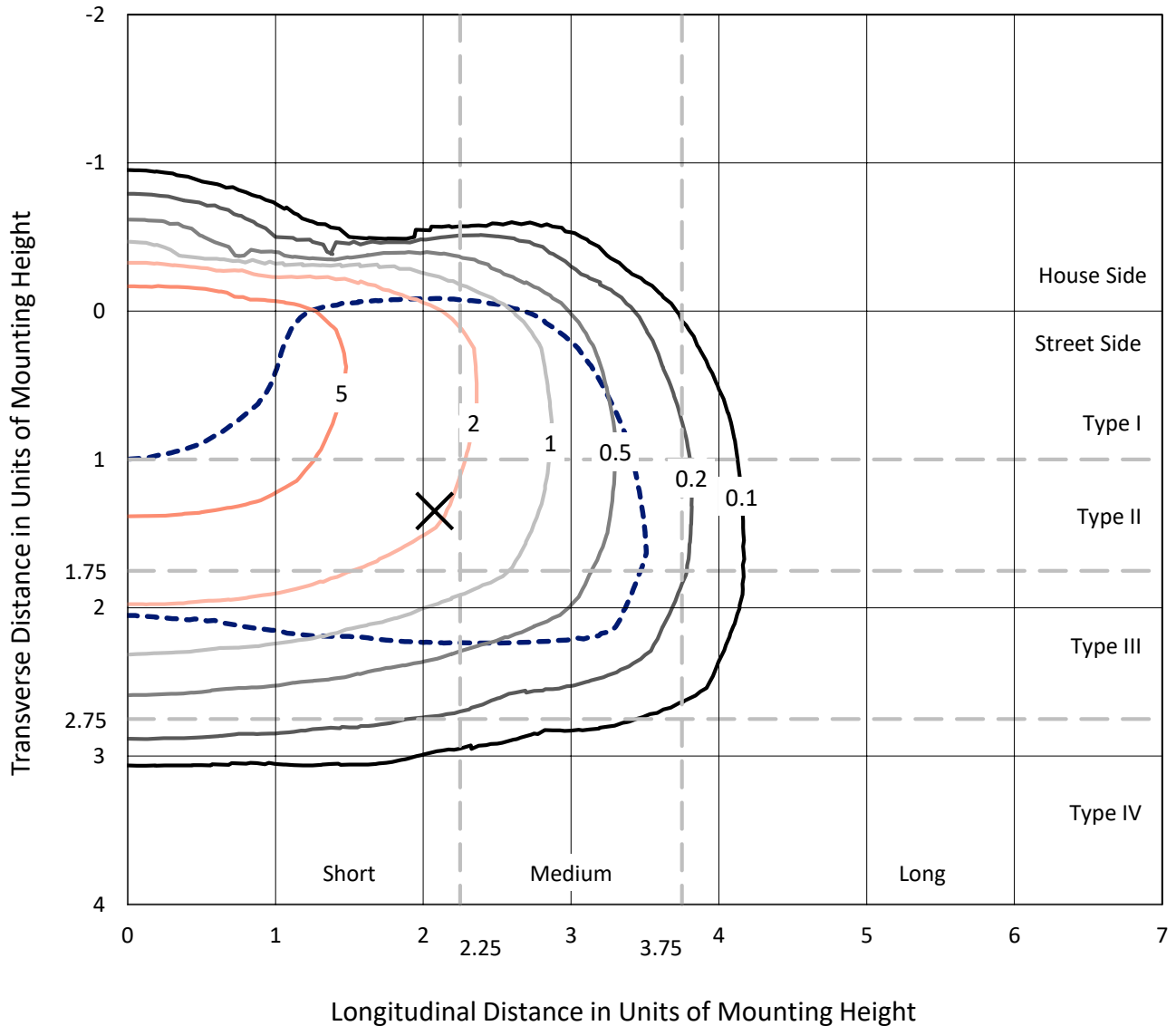




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Iso-Footcandle Lines of Horizontal Illumination

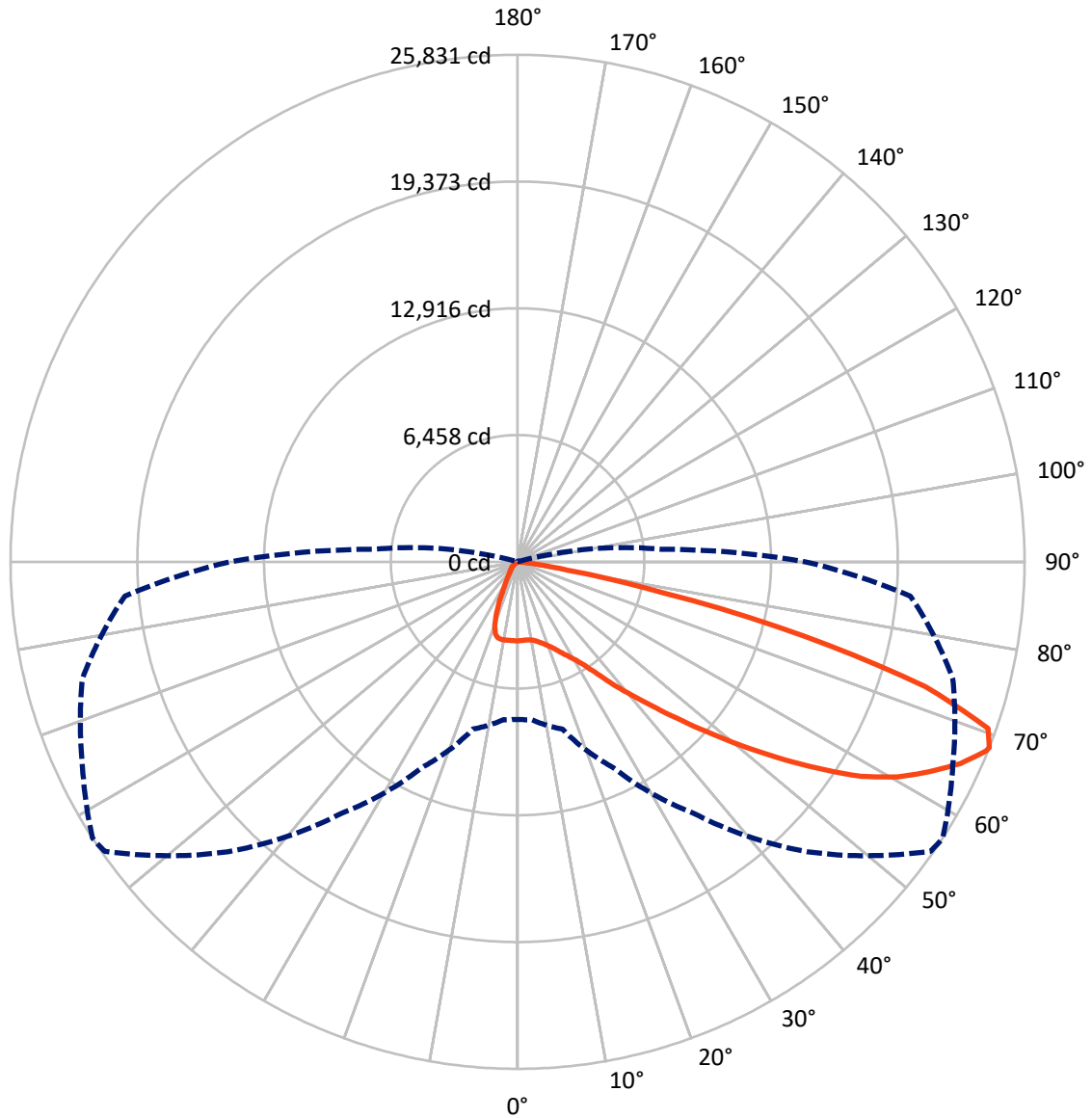
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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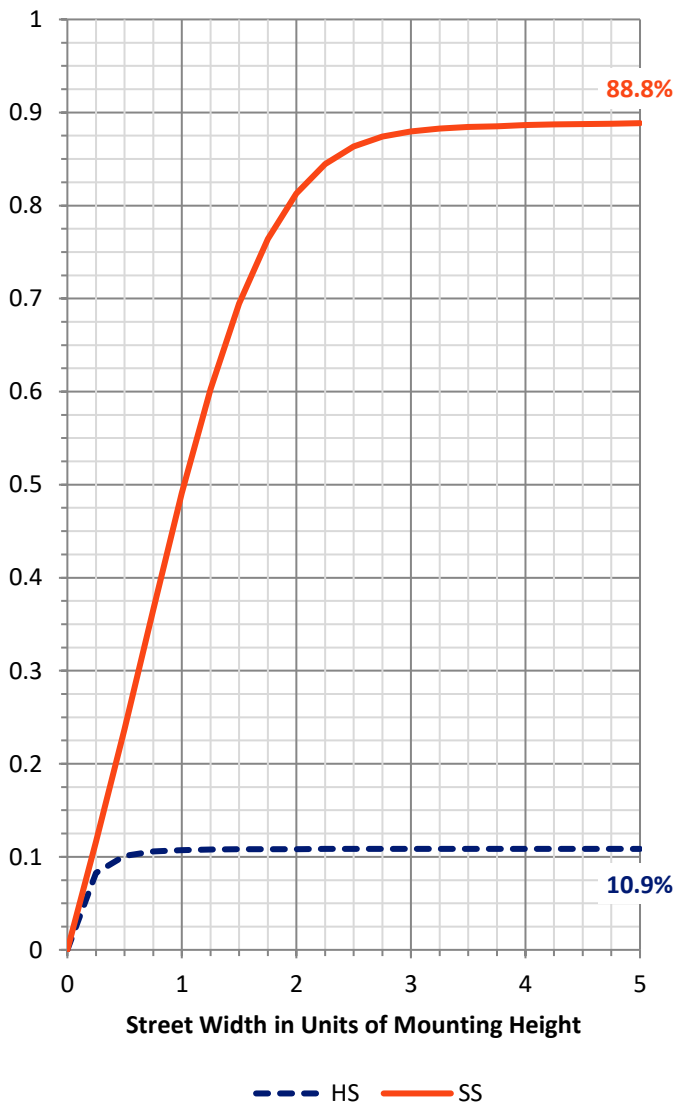
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3714.5	0.0	3714.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	30159.5	0.0	30159.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	33874.0	0.0	33874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	1.1
10°-20°	1043.8	3.1
20°-30°	1800.7	5.3
30°-40°	3108.0	9.2
40°-50°	5316.3	15.7
50°-60°	8505.5	25.1
60°-70°	9827.2	29.0
70°-80°	3755.1	11.1
80°-90°	140.8	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°	33874.0	100.0
0°-180°	33874.0	100.0

Coefficient of Utilization

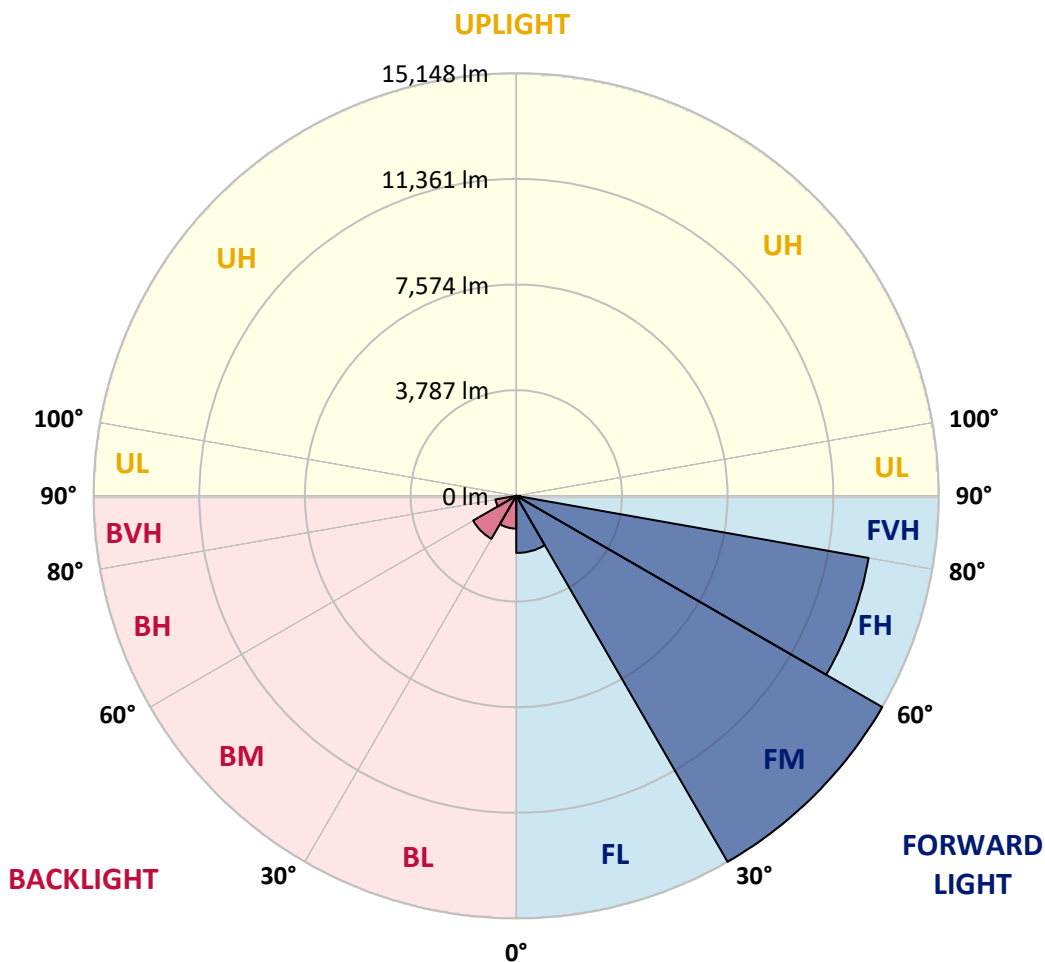


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.4	6.0			
FM (30°-60°)	15148.2	44.7			
FH (60°-80°)	12825.8	37.9			G5
FVH (80°-90°)	138.2	0.4			G2/225
BL (0°-30°)	1173.9	3.5	B3/2500		
BM (30°-60°)	1781.5	5.3	B2/2500		
BH (60°-80°)	756.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1
2.5°	3930.6	3948.2	3961.1	3969.1	3978.7	3999.5	4005.9	4015.5	4020.3	4020.3	4031.5
5°	3775.3	3794.5	3821.7	3844.1	3889.0	3946.6	3988.3	4004.3	4033.1	4058.8	4073.2
7.5°	3631.1	3653.5	3685.6	3738.4	3815.3	3908.2	3994.7	4017.1	4073.2	4127.6	4154.9
10°	3538.2	3555.8	3597.5	3672.7	3773.7	3903.4	4025.1	4052.4	4148.5	4239.8	4291.0
12.5°	3506.2	3522.2	3565.4	3650.3	3775.3	3927.4	4095.6	4135.6	4276.6	4409.5	4481.6
15°	3552.6	3555.8	3602.3	3682.4	3805.7	3986.7	4212.5	4260.6	4438.4	4611.4	4701.1
17.5°	3732.0	3717.6	3741.6	3776.9	3874.6	4065.2	4335.9	4407.9	4645.0	4848.4	4933.3
20°	4180.5	4180.5	4126.0	4029.9	4031.5	4186.9	4502.4	4584.1	4874.0	5109.5	5186.4
22.5°	4947.7	4933.3	4824.4	4588.9	4372.7	4396.7	4705.9	4811.6	5149.5	5401.0	5426.6
25°	5870.3	5852.7	5684.5	5353.0	4978.1	4736.3	4981.4	5103.1	5477.9	5700.5	5647.7
27.5°	6847.4	6832.9	6666.4	6254.7	5721.3	5277.7	5309.7	5425.0	5812.6	6032.1	5863.9
30°	7794.0	7798.8	7633.8	7210.9	6607.1	5968.0	5726.2	5793.4	6137.8	6360.4	6120.2
32.5°	8694.1	8700.5	8558.0	8085.5	7521.7	6770.5	6302.8	6285.2	6515.8	6735.2	6459.7
35°	9496.6	9512.6	9414.9	9048.1	8450.7	7664.2	7050.8	7009.1	7052.4	7300.6	6980.3
37.5°	10270.2	10279.8	10206.2	9897.0	9397.3	8646.1	7995.8	7936.5	7843.6	8034.2	7667.4
40°	11117.5	11093.5	11008.6	10728.3	10299.1	9730.5	9011.3	8908.8	8747.0	8916.8	8570.8
42.5°	11905.6	11878.4	11892.8	11575.6	11213.6	10845.3	10195.0	10018.8	9924.3	10119.7	9679.2
45°	12890.6	12876.2	12924.3	12648.8	12355.7	12088.2	11551.6	11359.4	11317.8	11546.8	11019.8
47.5°	13862.9	13898.1	14047.1	13930.2	13811.6	13576.2	12988.4	12901.9	12927.5	13204.6	12434.2
50°	14673.4	14715.0	15123.4	15258.0	15429.4	15291.6	14702.2	14649.3	14750.2	15000.1	13955.8
52.5°	15259.6	15344.5	15852.2	16472.1	17096.8	17189.7	16601.8	16553.8	16689.9	16728.4	15131.5
55°	15666.4	15741.7	16316.7	17450.7	18722.5	19122.9	18757.8	18572.0	18546.3	18166.7	16368.0
57.5°	15738.5	15730.5	16557.0	18083.4	19997.5	21030.6	20799.9	20617.3	20092.0	19496.1	17785.5
60°	15331.7	15378.1	16337.6	18302.9	20798.3	22473.7	22491.4	22254.3	21435.8	20788.7	19159.8
62.5°	14079.1	14268.1	15237.2	17727.8	20788.7	23055.2	23731.1	23550.1	22571.4	21847.5	20553.3
65°	12048.1	12115.4	13039.6	15757.7	19384.0	22811.7	24847.5	24780.2	23594.9	22875.8	21269.2
67.5°	8798.3	8652.5	9623.1	12408.5	16411.2	21392.6	25648.4	25733.2	24384.6	23087.2	20506.8
68°	8029.4	8072.7	8828.7	11580.4	15632.8	20891.2	25701.2	25831.0	24463.1	22949.5	20090.4
70°	4785.9	4869.2	5543.6	7973.4	11892.8	18054.6	25131.0	25427.3	23995.4	21528.7	17377.1
72.5°	1222.1	1321.4	1958.9	3568.6	6792.9	12720.9	21214.8	21716.1	20833.6	17465.2	11731.0
75°	502.9	528.6	700.0	1175.7	2530.7	5731.0	13983.0	15056.2	14442.7	10456.0	5301.7
77.5°	347.6	365.2	450.1	651.9	1095.6	1942.9	6855.4	7630.6	6874.6	3568.6	1156.4
80°	249.9	264.3	321.9	434.1	629.5	693.5	2234.4	2583.6	2051.8	783.2	286.7
82.5°	149.0	160.2	240.3	309.1	382.8	331.6	555.8	631.1	594.2	389.2	128.1
85°	73.7	86.5	161.8	221.0	206.6	139.3	169.8	189.0	233.9	237.1	68.9
87.5°	4.8	9.6	94.5	132.9	57.7	32.0	49.7	60.9	83.3	116.9	28.8
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°	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1
2.5°	4036.3	4037.9	4026.7	4021.9	4025.1	4005.9	3997.9	4001.1	4001.1	4005.9	3997.9
5°	4076.4	4076.4	4057.2	4031.5	4017.1	3980.3	3956.3	3949.8	3945.0	3941.8	3935.4
7.5°	4162.9	4153.3	4119.6	4063.6	4015.5	3935.4	3874.6	3842.5	3826.5	3820.1	3815.3
10°	4302.2	4284.6	4228.5	4124.4	4013.9	3871.4	3738.4	3643.9	3565.4	3533.4	3514.2
12.5°	4489.6	4464.0	4369.5	4196.5	4002.7	3740.0	3451.7	3174.6	2916.7	2811.0	2758.2
15°	4705.9	4669.0	4520.1	4257.4	3937.0	3443.7	2817.4	2332.1	1974.9	1840.4	1782.7
17.5°	4925.3	4877.2	4651.4	4295.8	3740.0	2830.2	1976.5	1492.8	1254.1	1190.1	1167.7
20°	5146.3	5075.9	4765.1	4267.0	3294.7	2040.6	1303.8	1090.8	1021.9	1002.7	996.3
22.5°	5356.2	5247.2	4867.6	4154.9	2609.2	1369.5	1031.5	964.2	941.8	930.6	927.4
25°	5538.8	5386.6	4957.3	3808.9	1846.8	1034.7	929.0	906.6	877.7	856.9	858.5
27.5°	5710.1	5525.9	5011.8	3238.7	1231.7	884.1	860.1	829.7	776.8	746.4	746.4
30°	5916.8	5711.7	5051.8	2492.3	906.6	781.6	762.4	716.0	643.9	603.8	603.8
32.5°	6227.5	5993.6	5026.2	1749.1	751.2	687.1	642.3	578.2	499.7	461.3	459.7
35°	6703.2	6429.3	4843.6	1146.8	663.1	597.4	525.4	446.9	378.0	346.0	344.4
37.5°	7343.9	7012.3	4433.6	820.1	594.2	514.2	427.7	341.2	289.9	269.1	267.5
40°	8175.2	7689.9	3847.3	664.7	530.2	434.1	330.0	264.3	229.0	213.0	214.6
42.5°	9173.1	8415.4	3144.2	573.4	467.7	357.2	257.9	208.2	185.8	174.6	171.4
45°	10281.4	9131.4	2407.4	510.9	405.2	288.3	201.8	165.0	147.4	141.0	141.0
47.5°	11500.4	9828.2	1761.9	456.5	338.0	222.6	161.8	134.5	120.1	115.3	113.7
50°	12607.1	10311.9	1270.2	398.8	277.1	176.2	131.3	112.1	102.5	96.1	96.1
52.5°	13529.7	10464.0	935.4	336.4	224.2	141.0	108.9	96.1	86.5	81.7	81.7
55°	14341.8	10401.6	695.1	277.1	181.0	115.3	92.9	81.7	73.7	68.9	68.9
57.5°	15120.2	10199.8	519.0	225.8	145.8	92.9	78.5	68.9	60.9	57.7	57.7
60°	15756.1	9863.4	386.0	182.6	116.9	75.3	65.7	56.1	49.7	44.8	44.8
62.5°	16271.9	9491.8	283.5	150.6	92.9	59.3	51.3	46.4	36.8	32.0	32.0
65°	16275.1	8875.1	213.0	124.9	72.1	46.4	38.4	36.8	24.0	19.2	17.6
67.5°	15097.8	7651.4	163.4	107.3	56.1	35.2	28.8	30.4	12.8	8.0	6.4
68°	14670.2	7340.7	153.8	105.7	52.9	33.6	27.2	30.4	11.2	6.4	4.8
70°	12368.5	5839.9	123.3	102.5	46.4	25.6	22.4	30.4	9.6	4.8	3.2
72.5°	7910.9	3389.2	91.3	81.7	35.2	19.2	14.4	27.2	9.6	3.2	1.6
75°	3366.8	1050.7	62.5	57.7	20.8	14.4	9.6	17.6	6.4	1.6	0.0
77.5°	709.6	237.1	36.8	35.2	14.4	9.6	6.4	4.8	1.6	0.0	0.0
80°	182.6	68.9	19.2	17.6	8.0	4.8	3.2	0.0	0.0	0.0	0.0
82.5°	57.7	27.2	11.2	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.8	16.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	4.8	1.6	0.0	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)