

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: P383026

Luminaire Tested: **GLEON-SA3D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18852.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

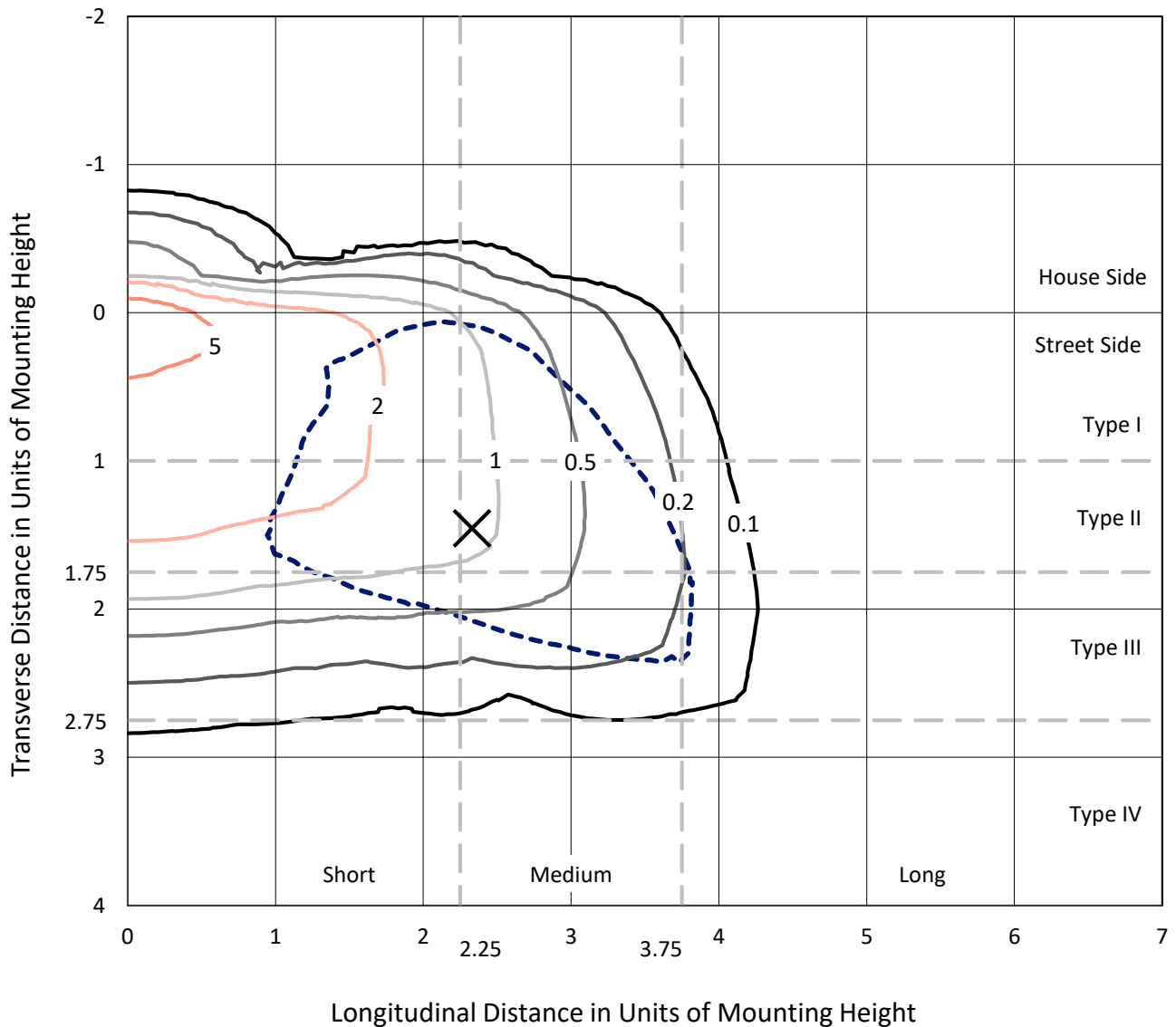
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

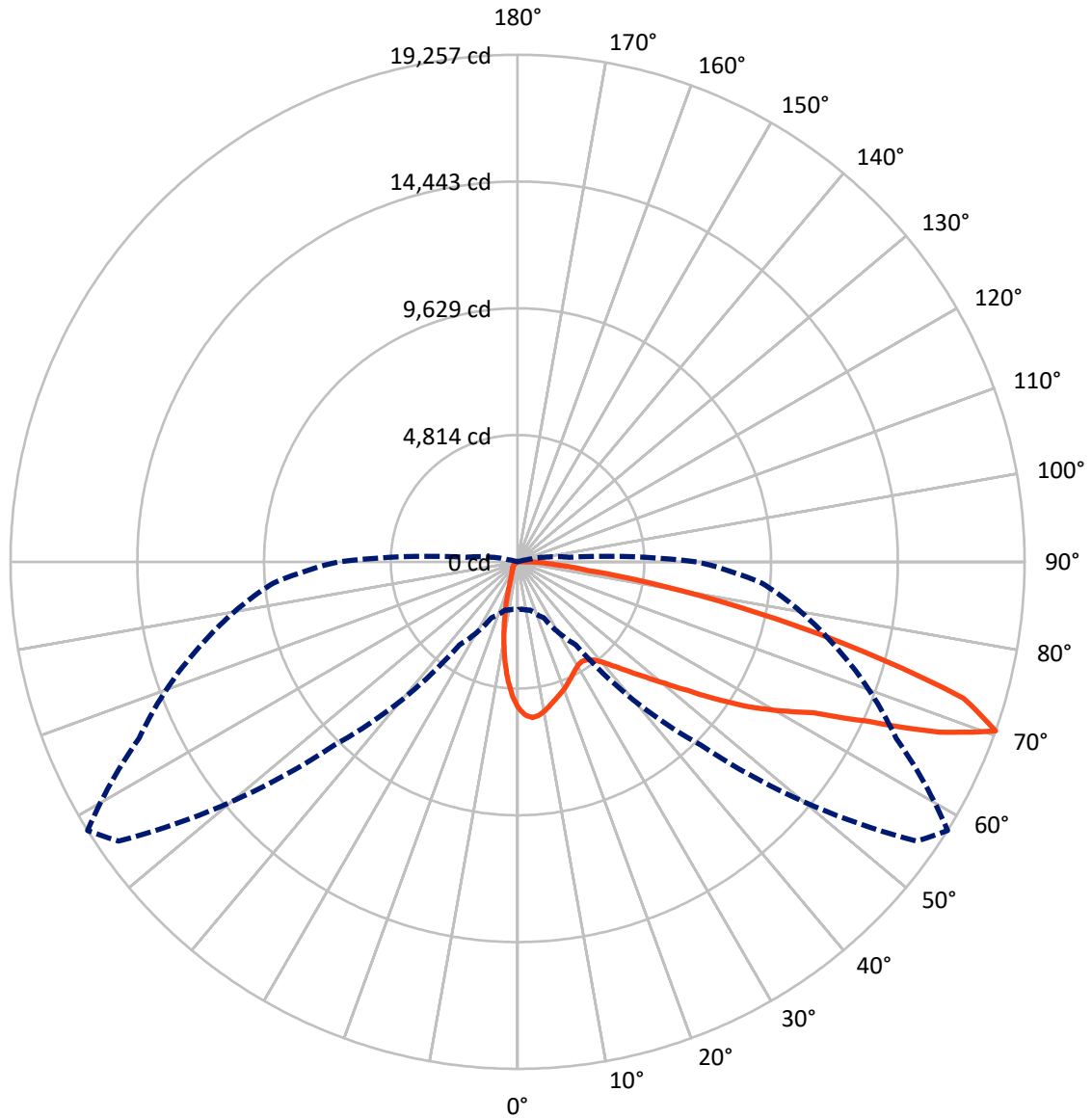
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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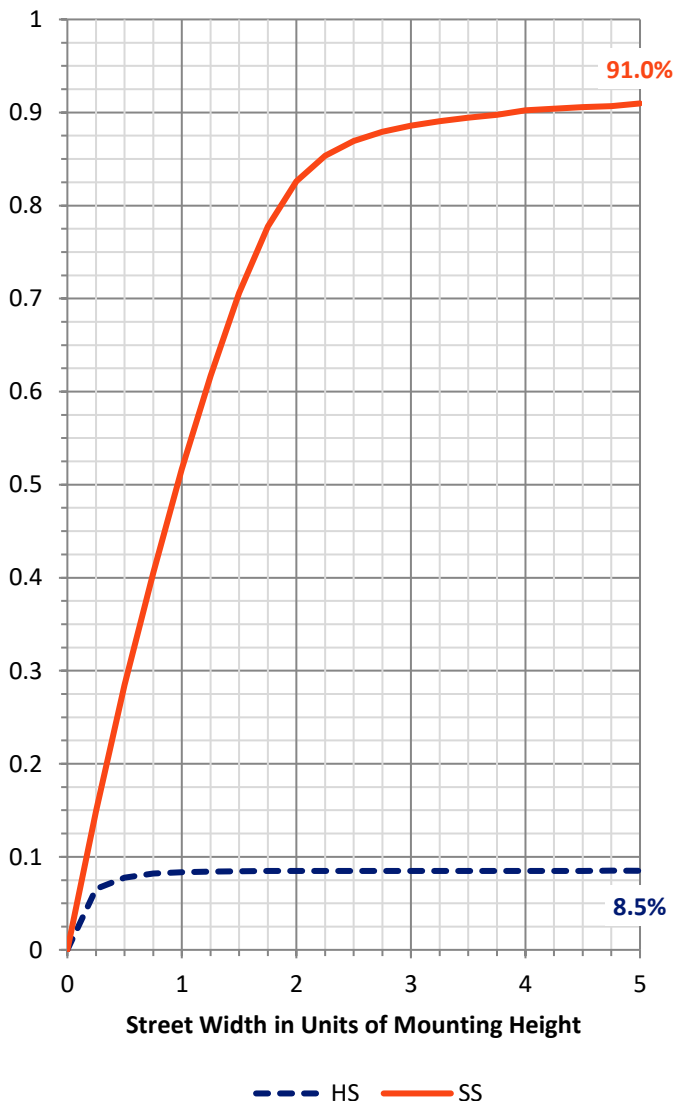
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.4	0.0	1613.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	17239.3	0.0	17239.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	18852.7	0.0	18852.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.4	2.4
10°-20°	955.8	5.1
20°-30°	1256.5	6.7
30°-40°	1664.1	8.8
40°-50°	2487.3	13.2
50°-60°	3984.6	21.1
60°-70°	5022.6	26.6
70°-80°	2709.2	14.4
80°-90°	317.1	1.7
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°	18852.7	100.0
0°-180°	18852.7	100.0

Coefficient of Utilization

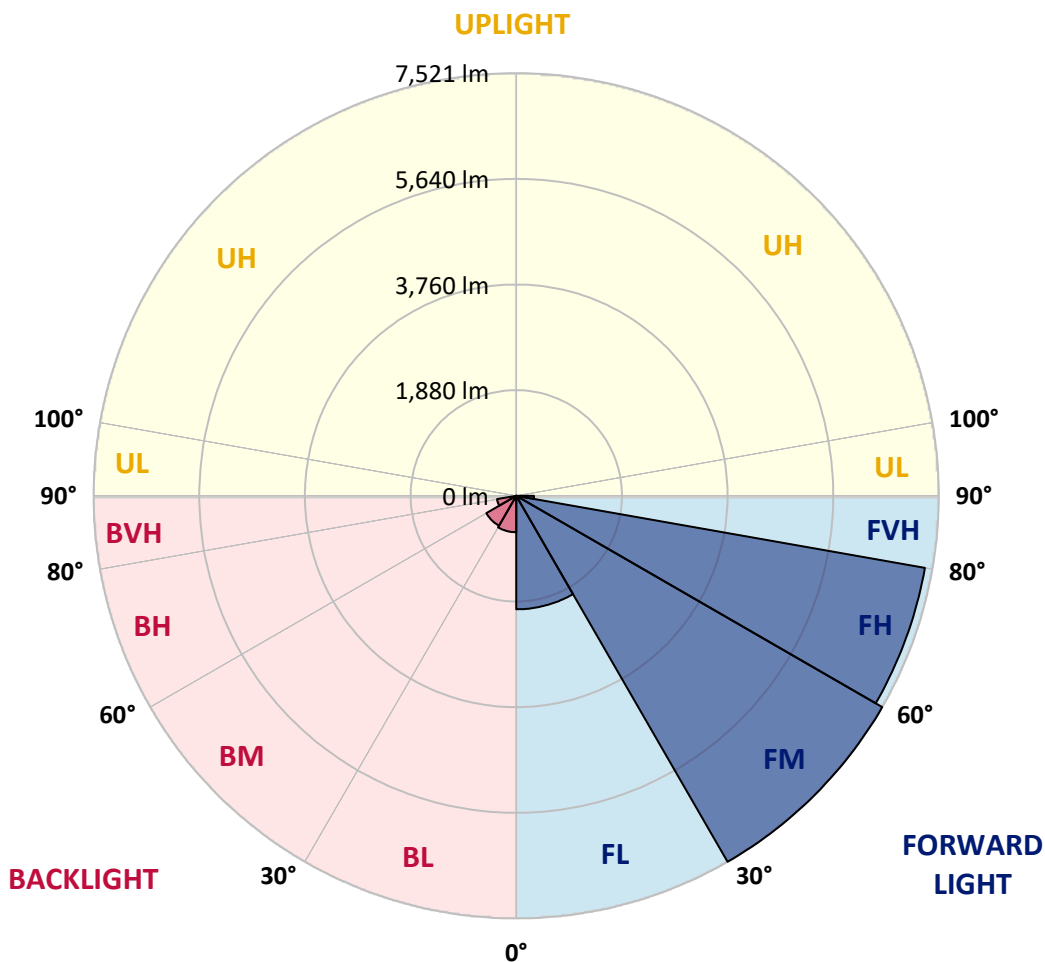


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2019.5	10.7			
FM (30°-60°)	7520.6	39.9			
FH (60°-80°)	7384.8	39.2			G3/7500
FVH (80°-90°)	314.4	1.7			G3/500
BL (0°-30°)	648.2	3.4	B2/1000		
BM (30°-60°)	615.5	3.3	B1/1000		
BH (60°-80°)	347.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0
2.5°	6030.7	6015.8	6010.3	6000.9	5964.9	5929.6	5859.8	5840.2	5796.4	5692.0	5581.6
5°	6035.4	6034.7	6051.1	6047.1	6034.7	6018.2	5968.0	5942.2	5867.6	5718.7	5516.4
7.5°	5744.6	5759.5	5796.4	5826.1	5860.6	5905.3	5911.6	5886.4	5825.3	5664.6	5396.5
10°	5354.2	5377.7	5429.4	5488.2	5578.4	5667.7	5747.7	5744.6	5723.4	5565.1	5252.3
12.5°	4963.0	4990.5	5050.0	5137.0	5264.8	5410.6	5553.3	5572.9	5608.2	5475.7	5119.0
15°	4620.5	4644.0	4702.7	4809.4	4967.8	5163.7	5373.0	5409.0	5500.0	5406.0	5007.7
17.5°	4329.6	4344.5	4387.6	4506.0	4689.4	4927.0	5199.0	5269.5	5405.1	5351.1	4911.3
20°	4126.6	4128.9	4157.1	4240.2	4423.6	4689.4	5018.7	5119.8	5304.8	5304.0	4811.7
22.5°	4026.2	4018.4	4023.9	4071.7	4206.5	4462.9	4838.4	4958.3	5214.6	5264.1	4710.6
25°	4007.4	4001.2	3985.4	3991.8	4073.3	4264.5	4656.5	4795.2	5135.4	5239.8	4622.8
27.5°	4066.2	4072.4	4045.8	4017.6	4023.9	4136.0	4495.0	4655.7	5071.2	5239.8	4560.9
30°	4184.6	4187.7	4168.1	4131.2	4081.9	4099.9	4382.9	4543.6	5039.0	5275.8	4521.6
32.5°	4315.5	4332.7	4330.4	4300.6	4230.1	4157.1	4356.3	4502.8	5036.7	5355.7	4517.7
35°	4477.8	4497.3	4530.3	4524.1	4450.4	4330.4	4447.2	4562.4	5083.0	5487.5	4560.1
37.5°	4650.2	4680.0	4750.6	4784.2	4736.5	4600.8	4651.0	4733.3	5206.8	5700.7	4667.5
40°	4817.2	4850.9	4979.5	5112.0	5075.9	4936.4	4959.8	5025.7	5427.1	6007.2	4871.3
42.5°	4981.1	5031.2	5220.1	5438.1	5481.2	5369.9	5382.4	5434.9	5754.0	6429.0	5204.5
45°	5177.0	5233.4	5513.4	5782.2	5897.4	5848.8	5902.2	5936.7	6181.2	6986.3	5653.7
47.5°	5464.7	5529.8	5873.1	6179.7	6381.9	6413.2	6520.6	6543.4	6721.4	7635.4	6239.2
50°	6026.0	6044.1	6354.5	6632.8	6924.4	7112.6	7234.9	7252.1	7375.2	8344.9	6970.7
52.5°	6732.3	6744.1	6919.7	7106.2	7437.8	7822.0	8108.1	8132.4	8158.3	9036.3	7692.6
55°	7433.9	7432.4	7548.4	7658.2	8037.6	8595.7	9216.5	9231.5	9045.7	9692.4	8244.5
57.5°	7872.1	7914.5	8090.9	8232.0	8761.9	9477.7	10339.2	10394.0	9977.8	10178.5	8790.1
60°	7732.6	7753.0	8144.1	8666.3	9664.2	10731.1	11475.1	11489.1	10678.6	10663.7	9480.0
62.5°	6588.1	6599.1	7213.6	8290.0	10121.3	12357.0	12845.4	12615.7	11484.5	11337.1	10305.4
65°	4515.4	4586.8	5100.2	6430.5	9281.7	13376.8	14966.6	14586.5	12712.8	12307.6	11051.8
67.5°	2659.1	2644.2	2898.1	3878.0	6817.0	12699.5	17650.0	17272.2	14388.1	12957.5	10833.1
70°	1816.3	1806.2	1903.3	2347.9	3848.3	9851.6	18494.3	19257.0	15867.4	12520.0	9323.2
72.5°	1296.6	1302.1	1445.6	1824.2	2416.1	5739.9	15904.2	17709.6	15404.1	10914.6	7086.7
75°	880.3	895.2	1100.6	1496.5	2118.2	2920.1	11286.2	13462.3	12543.6	7932.5	4073.3
77.5°	473.5	490.0	732.2	1205.7	1915.2	2028.8	7259.9	9265.2	7879.2	3566.1	1180.6
80°	197.6	207.0	342.5	876.4	1654.9	1781.9	4271.6	5618.3	3357.6	703.1	263.4
82.5°	85.4	90.2	142.7	522.9	1237.0	1504.4	2261.6	2703.0	1017.5	154.5	132.5
85°	16.5	17.2	58.8	276.8	789.4	849.0	1466.0	1436.9	457.0	66.6	96.4
87.5°	0.0	0.0	14.1	87.0	232.0	462.5	894.5	883.5	155.2	32.1	36.1
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°	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0
2.5°	5525.1	5471.0	5357.3	5217.0	5109.6	4991.2	4897.1	4778.0	4726.3	4728.6	4700.4
5°	5401.2	5289.9	5038.3	4720.8	4476.2	4223.7	4006.6	3790.3	3662.5	3620.9	3581.7
7.5°	5224.0	5047.7	4646.3	4157.1	3743.2	3338.8	2986.7	2677.1	2481.1	2385.5	2350.2
10°	5024.1	4776.4	4195.6	3551.2	2960.1	2412.9	1956.7	1560.0	1401.7	1294.3	1266.8
12.5°	4848.5	4513.1	3755.0	2929.5	2227.9	1567.9	1132.8	885.8	778.4	736.1	729.0
15°	4683.2	4266.9	3330.8	2366.7	1542.7	965.0	720.5	636.5	611.5	604.4	604.4
17.5°	4527.1	4032.5	2916.2	1812.4	1020.7	676.5	596.6	577.7	569.9	569.1	569.9
20°	4364.1	3798.1	2508.6	1327.9	712.5	573.1	551.1	540.9	538.5	538.5	538.5
22.5°	4208.1	3563.7	2111.9	948.5	571.5	522.9	511.9	504.8	502.5	501.7	500.1
25°	4058.4	3341.1	1724.7	670.2	501.7	479.0	469.6	460.2	453.1	449.2	446.9
27.5°	3935.3	3142.8	1364.1	537.8	453.1	433.5	421.7	407.6	390.4	382.6	379.4
30°	3837.3	2961.7	1051.3	453.8	407.6	388.1	370.0	345.7	320.6	307.3	306.5
32.5°	3760.5	2783.7	798.1	401.4	366.8	342.5	316.7	286.2	257.1	242.2	241.5
35°	3722.8	2627.0	609.9	362.9	330.8	300.2	268.1	234.4	206.2	192.1	190.5
37.5°	3747.9	2494.4	475.8	330.8	300.2	264.9	227.3	192.1	166.9	154.5	153.6
40°	3839.7	2409.8	386.5	303.4	274.3	231.3	190.5	157.5	136.4	126.2	125.4
42.5°	4034.8	2378.4	330.0	280.7	249.3	199.9	158.4	130.1	110.6	103.5	101.9
45°	4360.9	2424.6	291.6	258.7	223.4	170.1	130.9	106.6	89.3	83.8	83.1
47.5°	4795.2	2546.2	264.2	237.5	199.9	143.5	109.0	86.3	72.9	67.4	66.6
50°	5355.0	2739.0	241.5	216.4	177.9	121.5	90.2	68.2	56.5	52.5	52.5
52.5°	5964.0	2968.7	221.1	196.7	156.0	101.2	72.9	52.5	44.7	40.0	40.0
55°	6467.4	3169.4	199.1	181.8	129.4	83.8	55.6	40.0	32.9	30.6	30.6
57.5°	6969.8	3383.4	174.0	156.0	103.5	68.2	42.3	29.8	24.3	22.7	22.7
60°	7621.3	3645.2	149.7	127.0	81.5	51.7	31.4	21.1	18.1	17.2	17.2
62.5°	8337.8	3798.9	127.8	101.9	63.5	38.4	22.7	14.1	13.3	13.3	12.6
65°	8776.0	3581.7	107.4	81.5	49.4	29.0	14.9	10.2	11.7	11.0	9.4
67.5°	8217.1	2804.1	87.8	63.5	38.4	22.0	9.4	7.1	12.6	10.2	7.8
70°	6803.7	1963.0	68.2	44.7	30.6	18.8	6.2	4.7	13.3	10.2	6.2
72.5°	5091.6	1313.9	54.1	29.8	22.7	16.5	5.5	2.3	11.7	8.7	5.5
75°	2782.2	529.1	43.1	18.8	14.1	11.7	3.9	1.6	7.8	6.2	3.9
77.5°	732.2	139.5	31.4	12.6	7.8	4.7	2.3	0.7	3.9	3.2	1.6
80°	186.6	54.1	20.4	8.7	5.5	2.3	0.0	0.0	0.7	0.0	0.0
82.5°	99.6	22.7	12.6	6.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.3	14.9	7.1	3.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.0	4.7	2.3	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)