

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: P383082

Luminaire Tested: **GLEON-SA4B-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383082
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-SA4B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 18345.9 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

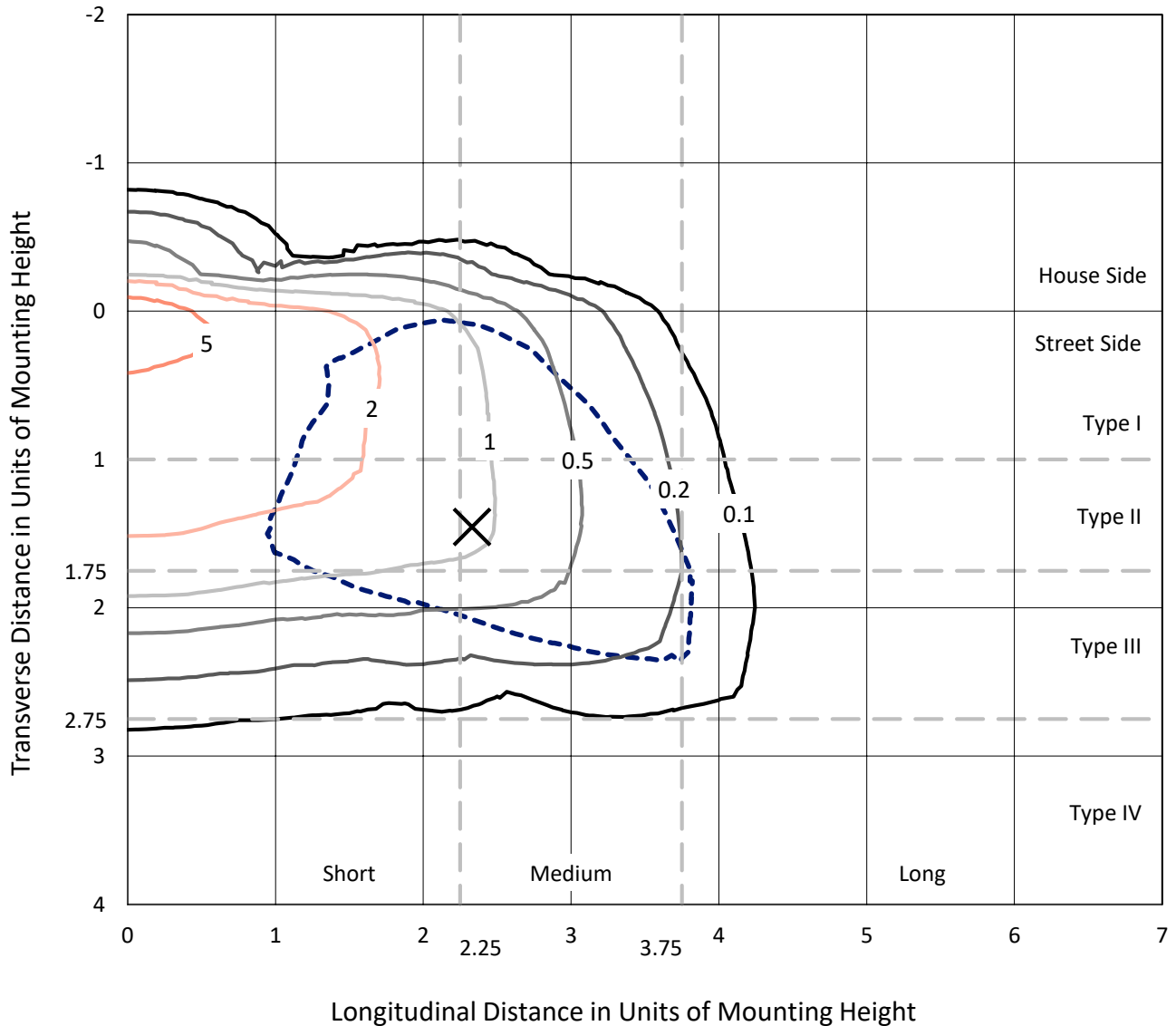
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

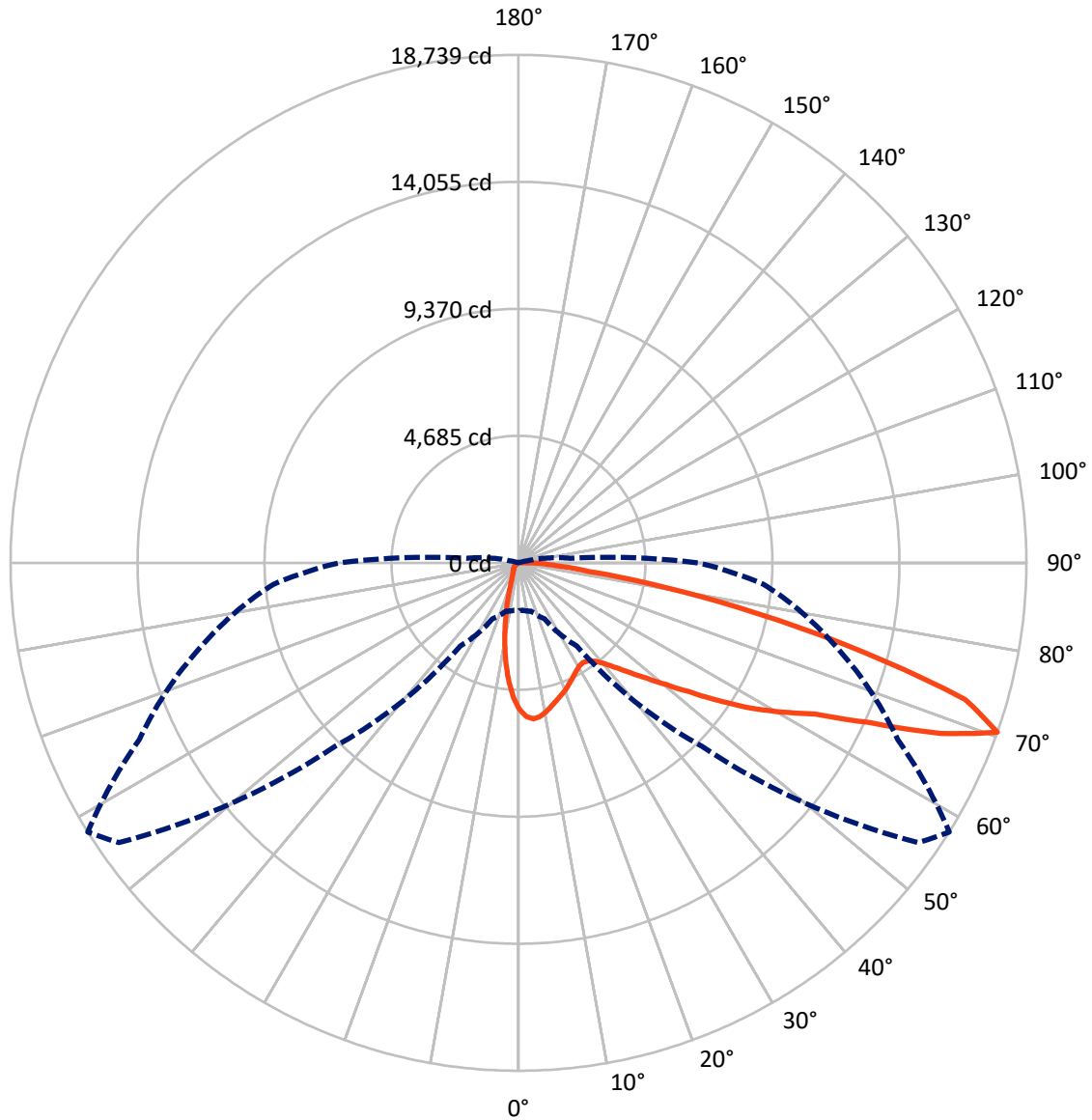
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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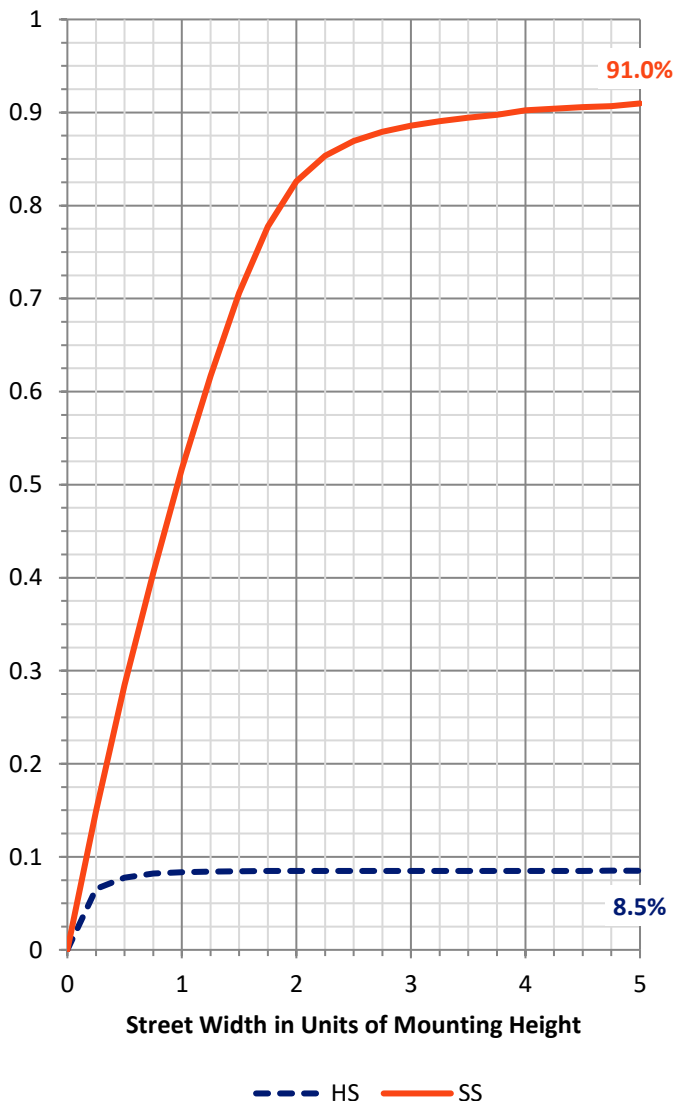
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.0	0.0	1570.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	16775.9	0.0	16775.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	18345.9	0.0	18345.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	2.4
10°-20°	930.1	5.1
20°-30°	1222.7	6.7
30°-40°	1619.4	8.8
40°-50°	2420.5	13.2
50°-60°	3877.5	21.1
60°-70°	4887.6	26.6
70°-80°	2636.3	14.4
80°-90°	308.6	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°	18345.9	100.0
0°-180°	18345.9	100.0

Coefficient of Utilization

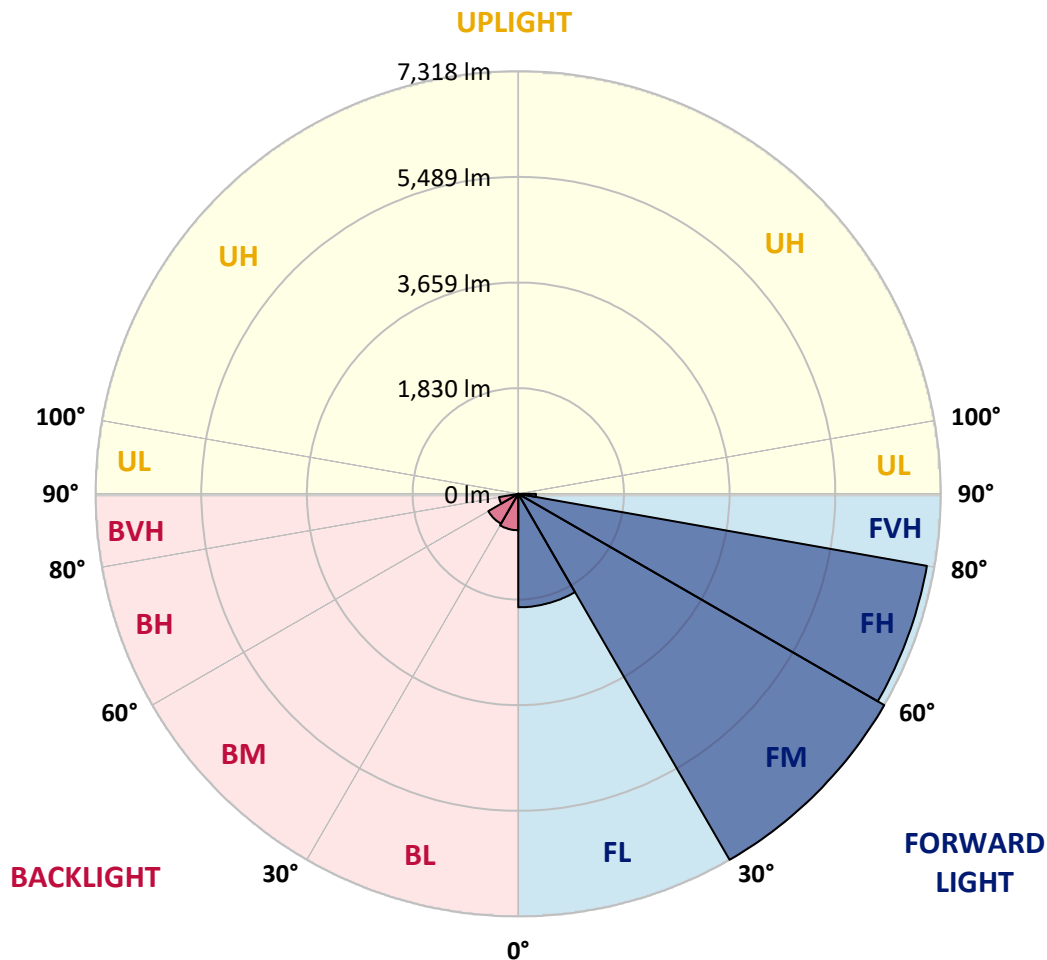


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.2	10.7			
FM (30°-60°)	7318.5	39.9			
FH (60°-80°)	7186.3	39.2			G3/7500
FVH (80°-90°)	305.9	1.7			G3/500
BL (0°-30°)	630.8	3.4	B2/1000		
BM (30°-60°)	598.9	3.3	B1/1000		
BH (60°-80°)	337.6	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°	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3
2.5°	5868.7	5854.1	5848.8	5839.6	5804.6	5770.2	5702.3	5683.3	5640.5	5539.1	5431.5
5°	5873.2	5872.4	5888.4	5884.6	5872.4	5856.4	5807.5	5782.4	5709.9	5565.0	5368.1
7.5°	5590.1	5604.7	5640.5	5669.5	5703.0	5746.5	5752.7	5728.3	5668.7	5512.3	5251.5
10°	5210.2	5233.2	5283.5	5340.7	5428.4	5515.4	5593.2	5590.1	5569.5	5415.5	5111.1
12.5°	4829.6	4856.3	4914.3	4999.0	5123.3	5265.2	5404.0	5423.1	5457.5	5328.5	4981.5
15°	4496.2	4519.1	4576.3	4680.1	4834.2	5024.9	5228.6	5263.7	5352.2	5260.6	4873.1
17.5°	4213.2	4227.7	4269.7	4384.9	4563.4	4794.5	5059.2	5127.9	5259.9	5207.3	4779.3
20°	4015.6	4018.0	4045.4	4126.3	4304.8	4563.4	4883.7	4982.2	5162.2	5161.4	4682.4
22.5°	3918.0	3910.4	3915.7	3962.2	4093.5	4342.9	4708.3	4825.0	5074.5	5122.6	4584.0
25°	3899.7	3893.6	3878.3	3884.5	3963.7	4150.0	4531.3	4666.4	4997.5	5098.9	4498.5
27.5°	3956.9	3963.0	3937.1	3909.6	3915.7	4024.8	4374.2	4530.6	4934.9	5098.9	4438.3
30°	4072.1	4075.1	4056.1	4020.2	3972.1	3989.7	4265.1	4421.5	4903.6	5133.9	4400.2
32.5°	4199.5	4216.3	4213.9	4185.0	4116.3	4045.4	4239.2	4381.8	4901.3	5211.8	4396.3
35°	4357.4	4376.5	4408.5	4402.4	4330.7	4213.9	4327.7	4439.8	4946.3	5339.9	4437.5
37.5°	4525.3	4554.2	4622.9	4655.7	4609.1	4477.2	4526.0	4606.1	5066.9	5547.5	4542.0
40°	4687.7	4720.5	4845.6	4974.6	4939.4	4803.7	4826.5	4890.6	5281.2	5845.7	4740.4
42.5°	4847.1	4895.9	5079.8	5291.9	5333.9	5225.5	5237.7	5288.9	5599.3	6256.2	5064.5
45°	5037.9	5092.8	5365.2	5626.8	5738.9	5691.7	5743.5	5777.1	6015.1	6798.5	5501.7
47.5°	5317.8	5381.2	5715.3	6013.5	6210.3	6240.9	6345.4	6367.5	6540.7	7430.2	6071.5
50°	5864.0	5881.6	6183.7	6454.5	6738.3	6921.3	7040.4	7057.1	7176.9	8120.6	6783.3
52.5°	6551.4	6562.8	6733.7	6915.3	7237.9	7611.8	7890.2	7913.8	7939.0	8793.3	7485.8
55°	7234.1	7232.6	7345.5	7452.3	7821.6	8364.6	8968.8	8983.3	8802.6	9431.9	8022.9
57.5°	7660.6	7701.8	7873.3	8010.7	8526.4	9222.9	10061.3	10114.7	9709.5	9904.9	8553.8
60°	7524.8	7544.6	7925.2	8433.3	9404.4	10442.6	11166.6	11180.3	10391.5	10377.1	9225.1
62.5°	6411.0	6421.7	7019.8	8067.1	9849.2	12024.8	12500.1	12276.6	11175.8	11032.3	10028.4
65°	4394.0	4463.4	4963.1	6257.7	9032.2	13017.3	14564.4	14194.4	12371.1	11976.7	10754.6
67.5°	2587.6	2573.1	2820.3	3773.8	6633.7	12358.2	17175.6	16807.9	14001.3	12609.1	10541.9
70°	1767.5	1757.6	1852.2	2284.7	3744.8	9586.7	17997.2	18739.4	15440.9	12183.5	9072.6
72.5°	1261.8	1267.1	1406.7	1775.2	2351.1	5585.6	15476.7	17233.5	14990.0	10621.1	6896.2
75°	856.7	871.2	1071.0	1456.3	2061.2	2841.6	10982.8	13100.4	12206.3	7719.3	3963.7
77.5°	460.7	476.8	712.5	1173.3	1863.7	1974.2	7064.8	9016.2	7667.4	3470.2	1148.9
80°	192.3	201.4	333.4	852.8	1610.4	1734.0	4156.8	5467.3	3267.3	684.3	256.4
82.5°	83.2	87.8	138.8	508.8	1203.7	1463.9	2200.8	2630.3	990.1	150.3	128.9
85°	16.0	16.8	57.2	269.3	768.2	826.2	1426.6	1398.3	444.7	64.8	93.8
87.5°	0.0	0.0	13.7	84.7	225.8	450.1	870.4	859.7	151.0	31.3	35.1
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°	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3	5419.3
2.5°	5376.6	5324.0	5213.3	5076.7	4972.2	4857.1	4765.5	4649.5	4599.2	4601.5	4574.1
5°	5256.1	5147.7	4902.8	4593.9	4355.9	4110.3	3898.9	3688.4	3564.0	3523.6	3485.5
7.5°	5083.6	4912.0	4521.5	4045.4	3642.6	3249.0	2906.4	2605.2	2414.4	2321.3	2287.0
10°	4889.1	4648.0	4082.8	3455.7	2880.5	2348.1	1904.1	1518.0	1364.0	1259.5	1232.8
12.5°	4718.2	4391.7	3654.1	2850.8	2168.0	1525.7	1102.3	862.1	757.5	716.4	709.5
15°	4557.2	4152.2	3241.3	2303.1	1501.3	939.1	701.1	619.5	595.0	588.2	588.2
17.5°	4405.5	3924.1	2837.8	1763.7	993.2	658.3	580.5	562.2	554.6	553.8	554.6
20°	4246.8	3696.0	2441.1	1292.2	693.4	557.6	536.3	526.3	524.1	524.1	524.1
22.5°	4095.0	3468.0	2055.1	923.1	556.1	508.8	498.1	491.3	489.0	488.2	486.7
25°	3949.3	3251.3	1678.3	652.3	488.2	466.1	456.9	447.8	440.9	437.1	434.8
27.5°	3829.5	3058.3	1327.4	523.3	440.9	421.9	410.4	396.7	379.9	372.2	369.3
30°	3734.1	2882.0	1023.0	441.6	396.7	377.6	360.0	336.4	312.0	299.0	298.3
32.5°	3659.4	2708.8	776.5	390.6	357.0	333.4	308.2	278.4	250.2	235.7	234.9
35°	3622.8	2556.4	593.5	353.2	321.9	292.1	260.9	228.1	200.7	186.9	185.4
37.5°	3647.2	2427.4	463.1	321.9	292.1	257.9	221.2	186.9	162.5	150.3	149.5
40°	3736.4	2345.0	376.1	295.2	267.0	225.1	185.4	153.3	132.7	122.8	122.0
42.5°	3926.4	2314.5	321.2	273.1	242.6	194.5	154.1	126.6	107.6	100.7	99.2
45°	4243.8	2359.5	283.7	251.7	217.4	165.5	127.4	103.8	87.0	81.6	80.9
47.5°	4666.4	2477.7	257.1	231.1	194.5	139.6	106.0	83.9	71.0	65.6	64.8
50°	5211.1	2665.4	234.9	210.5	173.2	118.2	87.8	66.3	55.0	51.1	51.1
52.5°	5803.7	2888.9	215.1	191.4	151.8	98.4	71.0	51.1	43.5	38.9	38.9
55°	6293.5	3084.2	193.8	177.0	125.9	81.6	54.1	38.9	32.0	29.7	29.7
57.5°	6782.5	3292.5	169.4	151.8	100.7	66.3	41.2	29.0	23.7	22.1	22.1
60°	7416.4	3547.2	145.7	123.6	79.4	50.3	30.6	20.6	17.5	16.8	16.8
62.5°	8113.7	3696.8	124.4	99.2	61.8	37.4	22.1	13.7	12.9	12.9	12.2
65°	8540.1	3485.5	104.5	79.4	48.1	28.2	14.5	9.9	11.5	10.7	9.1
67.5°	7996.2	2728.7	85.4	61.8	37.4	21.3	9.1	6.9	12.2	9.9	7.6
70°	6620.8	1910.1	66.3	43.5	29.7	18.4	6.1	4.6	12.9	9.9	6.1
72.5°	4954.7	1278.5	52.6	29.0	22.1	16.0	5.3	2.3	11.5	8.4	5.3
75°	2707.4	515.0	41.9	18.4	13.7	11.5	3.8	1.5	7.6	6.1	3.8
77.5°	712.5	135.8	30.6	12.2	7.6	4.6	2.3	0.7	3.8	3.1	1.5
80°	181.6	52.6	19.8	8.4	5.3	2.3	0.0	0.0	0.7	0.0	0.0
82.5°	96.9	22.1	12.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.2	14.5	6.9	3.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	4.6	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)