

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: P382601

Luminaire Tested: **GLEON-SA0A-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35174.3 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

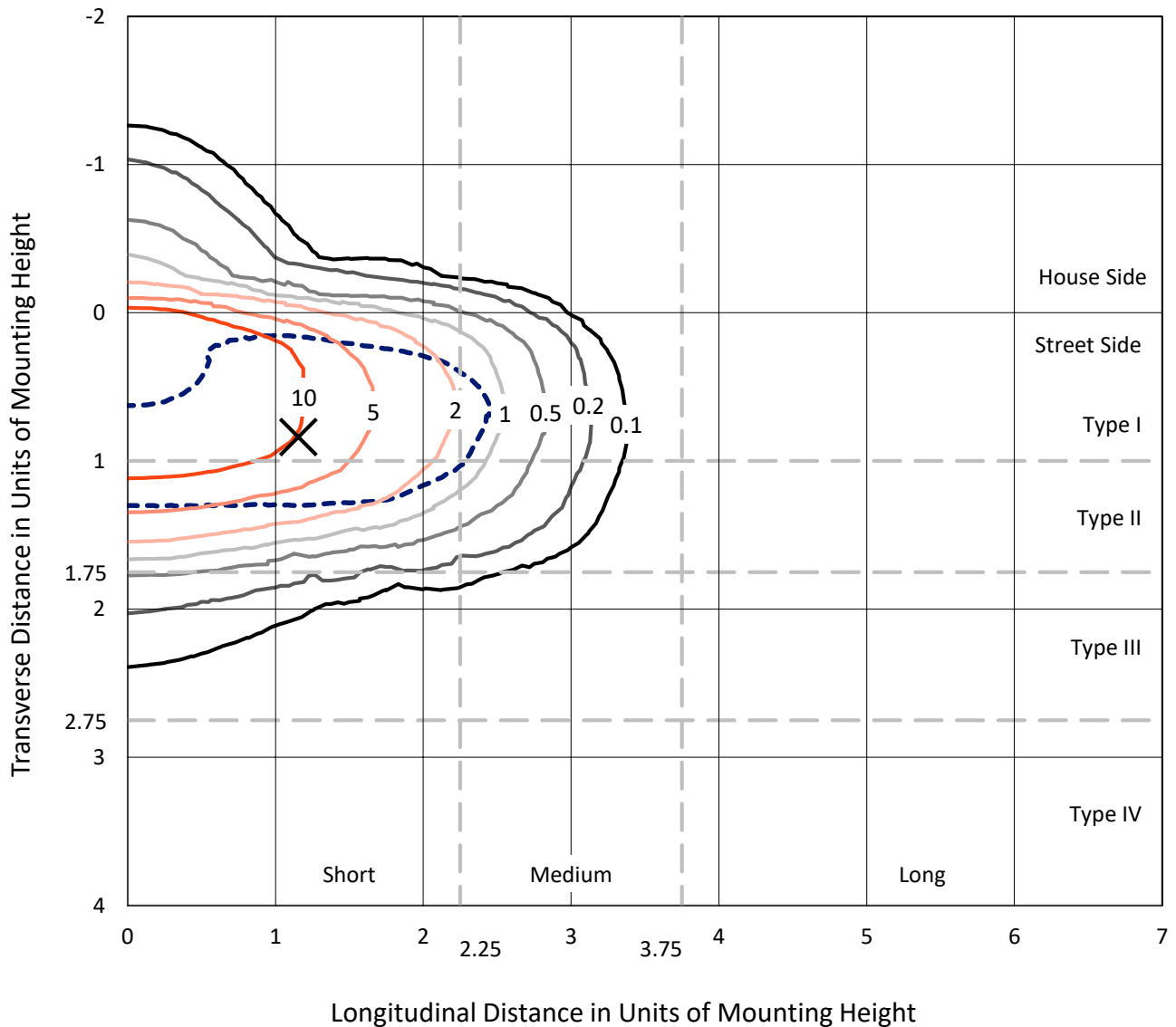
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

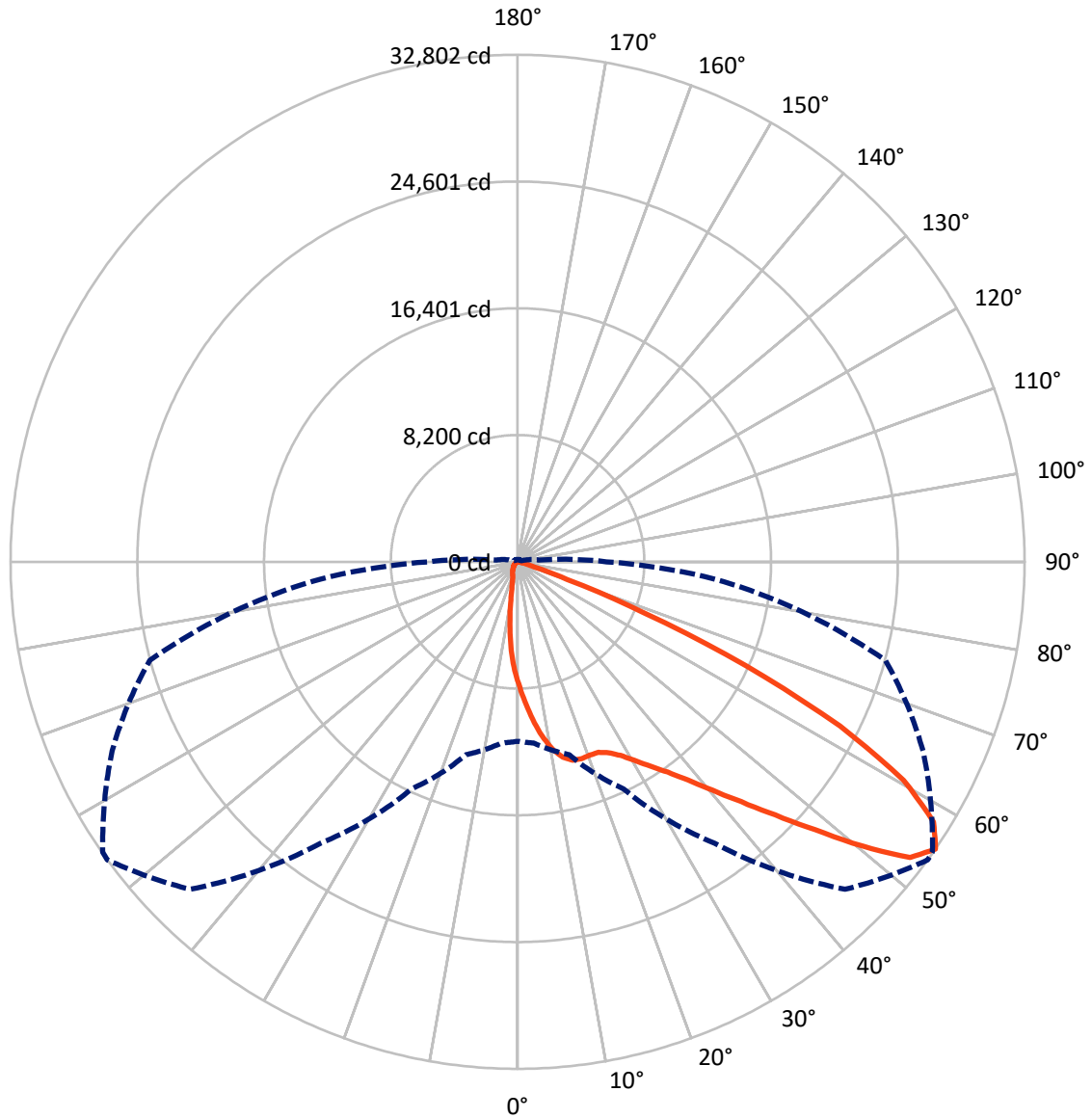
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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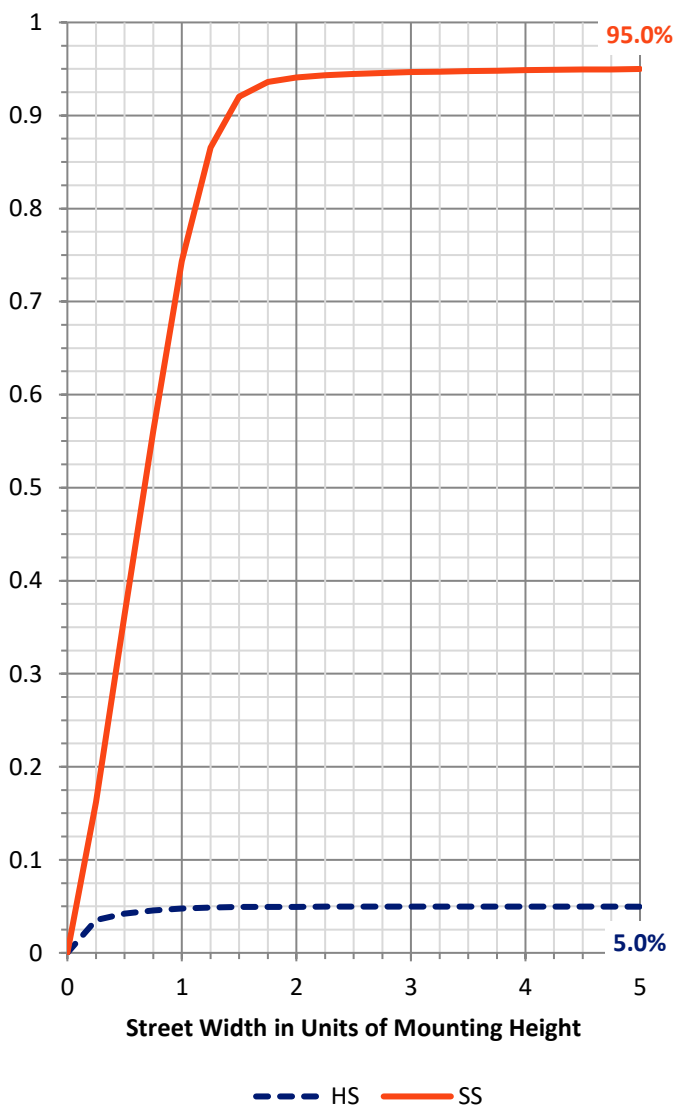
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1754.9	0.0	1754.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	33419.4	0.0	33419.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	35174.3	0.0	35174.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	725.4	2.1
10°-20°	1989.6	5.7
20°-30°	3396.8	9.7
30°-40°	5451.3	15.5
40°-50°	8711.2	24.8
50°-60°	9334.3	26.5
60°-70°	4792.5	13.6
70°-80°	726.0	2.1
80°-90°	47.3	0.1
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°	35174.3	100.0
0°-180°	35174.3	100.0

**Coefficient of Utilization**



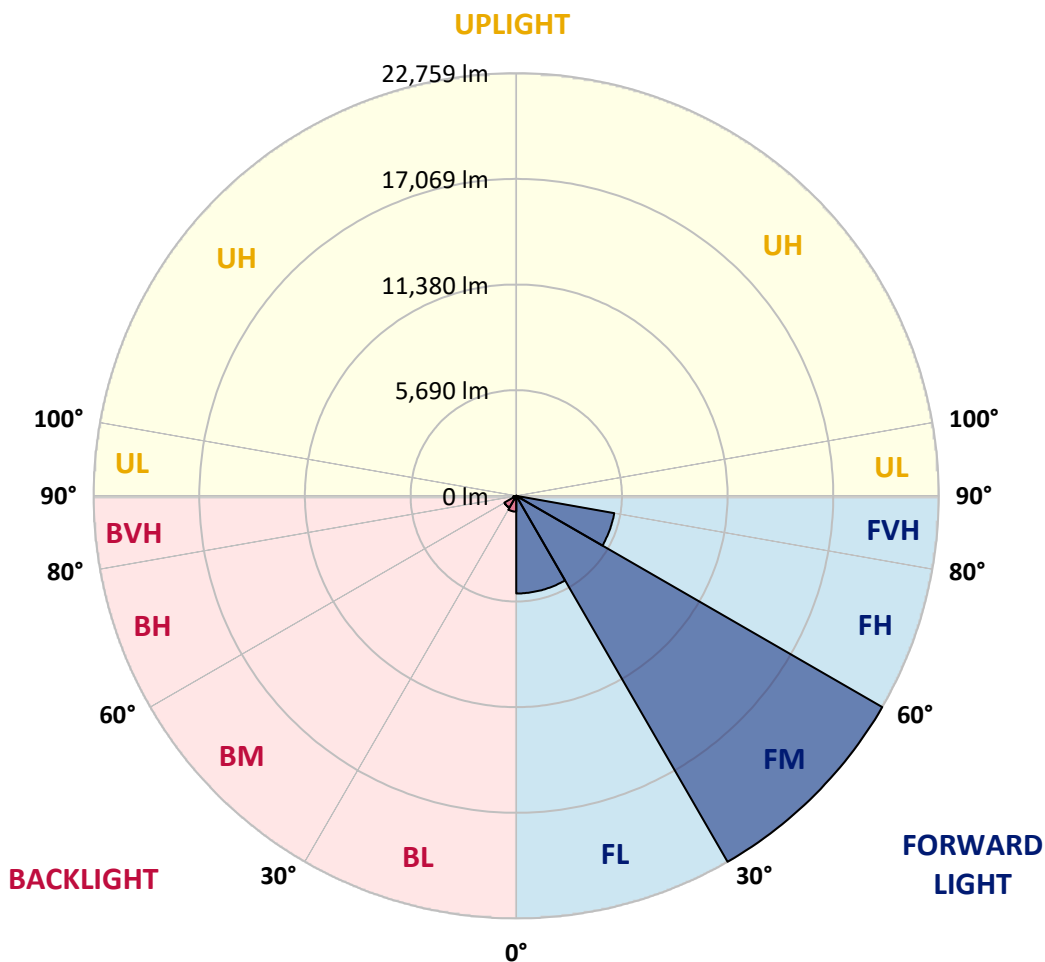
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5258.0	14.9			
FM (30°-60°)	22759.3	64.7			
FH (60°-80°)	5356.7	15.2			G3/7500
FVH (80°-90°)	45.4	0.1			G1/100
BL (0°-30°)	853.8	2.4	B2/1000		
BM (30°-60°)	737.5	2.1	B1/1000		
BH (60°-80°)	161.7	0.5	B1/500		G1/500
BVH (80°-90°)	1.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6
2.5°	9885.8	9738.4	9743.0	9676.2	9431.5	9240.2	9041.2	8994.1	8684.3	8359.1	8046.2
5°	11594.7	11486.8	11461.0	11331.9	10991.6	10631.7	10245.8	10156.2	9550.0	8884.7	8230.0
7.5°	12472.7	12474.2	12452.9	12405.8	12193.1	11843.8	11372.9	11278.7	10453.9	9455.9	8421.5
10°	12217.4	12275.2	12393.7	12550.2	12712.6	12668.6	12314.7	12229.6	11333.4	10060.4	8634.1
12.5°	11622.0	11629.6	11761.7	12018.5	12486.4	12966.3	12972.5	12943.6	12173.5	10692.4	8868.1
15°	11325.8	11354.6	11403.3	11568.9	12012.4	12781.0	13330.9	13371.9	12943.6	11363.8	9117.1
17.5°	11520.3	11561.3	11520.3	11540.0	11796.7	12487.9	13393.2	13498.0	13616.5	12027.6	9352.6
20°	12047.3	12085.3	12012.4	11931.9	11982.0	12402.8	13349.2	13490.4	14143.6	12617.0	9550.0
22.5°	12758.2	12773.5	12662.5	12530.4	12493.9	12691.4	13385.6	13531.4	14565.9	13150.2	9674.6
25°	13540.5	13554.2	13416.0	13264.1	13177.5	13258.0	13684.8	13794.2	14938.0	13659.0	9746.0
27.5°	14392.7	14404.9	14231.7	14044.9	13944.6	13947.6	14178.5	14295.5	15334.5	14239.3	9803.8
30°	15293.5	15287.4	15127.9	14868.2	14740.5	14737.5	14889.4	15007.9	15908.7	14983.6	9882.7
32.5°	16305.2	16293.0	16066.7	15744.6	15600.3	15621.6	15756.8	15825.1	16621.1	15776.5	10024.0
35°	17637.4	17602.4	17260.6	16861.1	16595.2	16587.7	16701.6	16756.3	17529.5	16736.6	10259.4
37.5°	19365.9	19334.1	18870.7	18290.5	17916.8	17777.1	17912.3	17982.1	18825.2	17968.4	10637.7
40°	21070.3	21038.4	20763.5	20231.8	19656.1	19320.4	19426.8	19501.2	20443.0	19463.2	11114.7
42.5°	22246.0	22273.4	22369.1	22413.1	21873.9	21169.0	21217.7	21295.1	22142.7	21061.2	11660.0
45°	22555.9	22615.2	23155.9	24217.7	24419.8	23869.9	23361.0	23403.5	23869.9	22659.2	12205.3
47.5°	21624.8	21734.1	22777.7	24752.4	26462.8	26851.7	25888.6	25832.5	25527.1	23951.9	12592.7
50°	19508.7	19609.0	20960.9	23882.0	27082.6	29698.3	28917.6	28752.0	26980.8	24725.0	12729.4
52.5°	16446.4	16567.9	17666.1	21141.8	25914.4	30968.3	31785.4	31647.3	28047.1	24785.9	12752.1
55°	11614.4	11761.7	12923.8	16203.3	22212.7	29958.1	32801.7	32760.7	28932.8	24624.8	12800.8
57.5°	6527.3	6633.6	7886.8	10387.0	16268.7	26093.7	31739.9	32011.8	29467.5	24345.3	12873.7
60°	2898.3	2927.1	3575.7	5170.7	9524.2	19941.6	28700.3	29159.1	29008.7	23971.6	12996.8
62.5°	1607.1	1582.8	1582.8	2149.5	4139.3	12345.1	23403.5	24161.6	27050.7	23529.6	13002.8
65°	1259.3	1236.4	1171.1	1180.3	1576.7	5479.1	16206.4	17553.8	23332.1	22233.9	12565.4
67.5°	1067.8	1048.1	982.8	957.0	979.8	1807.7	8904.5	10303.5	17704.2	18866.3	10883.7
70°	902.3	888.6	855.3	823.3	765.5	893.2	3407.1	4358.1	10909.6	12550.2	7429.6
72.5°	726.0	720.0	732.2	704.8	634.9	595.4	1165.1	1411.2	4900.3	5600.7	3060.8
75°	625.8	622.8	628.9	601.5	522.5	414.7	592.4	647.1	1382.3	1370.1	619.8
77.5°	407.1	411.7	521.0	508.9	449.7	276.5	306.9	331.2	419.3	314.4	188.4
80°	259.7	256.7	264.3	422.3	404.1	211.2	153.4	161.0	202.1	154.9	91.1
82.5°	158.0	154.9	173.2	197.5	203.5	147.4	94.2	95.7	126.0	100.2	48.6
85°	13.7	18.3	104.8	97.3	69.9	45.6	45.6	48.6	66.8	59.2	27.4
87.5°	0.0	0.0	18.3	27.4	15.2	16.7	16.7	18.3	25.8	25.8	13.7
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°	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6	7877.6
2.5°	7883.7	7725.7	7406.7	7099.9	6840.2	6589.5	6304.0	6021.4	5889.2	5836.1	5781.4
5°	7897.4	7572.3	6914.6	6252.3	5565.7	4947.4	4420.4	3879.6	3609.2	3490.7	3436.0
7.5°	7915.6	7420.4	6357.1	5245.2	4139.3	3300.8	2568.6	2097.8	1894.2	1862.3	1783.4
10°	7918.6	7236.6	5710.0	4133.3	2775.3	1989.9	1531.2	1288.1	1198.5	1183.3	1157.4
12.5°	7924.8	7019.4	4991.5	3060.8	1850.1	1330.6	1107.3	1026.8	1002.5	1001.0	1001.0
15°	7942.9	6791.5	4245.6	2205.6	1329.1	1054.2	972.2	940.3	931.2	935.7	934.2
17.5°	7942.9	6522.7	3513.5	1643.6	1074.0	947.8	902.3	881.1	878.0	882.5	884.0
20°	7885.3	6196.1	2842.1	1279.0	952.4	879.5	838.5	818.7	811.2	814.2	815.8
22.5°	7747.0	5795.1	2295.2	1058.8	871.9	817.2	773.2	742.8	730.6	732.2	732.2
25°	7531.3	5319.6	1795.5	916.0	806.6	750.4	698.8	663.8	656.2	654.7	657.8
27.5°	7254.8	4794.0	1429.4	806.6	729.1	675.9	624.3	595.4	589.4	590.9	592.4
30°	6983.0	4248.7	1127.1	713.9	642.6	592.4	553.0	539.3	539.3	543.8	545.3
32.5°	6733.8	3724.6	891.7	633.5	565.1	519.5	496.7	495.2	502.8	505.8	507.3
35°	6519.6	3240.1	738.3	571.1	504.3	464.8	457.2	463.3	472.4	478.5	480.0
37.5°	6367.7	2807.1	645.6	519.5	457.2	425.3	423.8	436.0	448.1	461.8	464.8
40°	6304.0	2441.0	581.8	474.0	419.3	395.0	390.4	407.1	429.9	449.7	452.6
42.5°	6250.8	2141.8	527.1	429.9	388.8	353.9	352.4	373.6	401.0	420.8	425.3
45°	6205.2	1901.8	477.0	382.8	349.3	303.8	308.3	335.7	357.0	378.2	382.8
47.5°	6111.0	1704.4	422.3	332.7	288.6	259.7	268.8	293.2	309.9	341.8	346.3
50°	5942.4	1543.3	366.1	271.9	235.4	224.8	238.5	255.2	276.5	303.8	306.9
52.5°	5828.5	1421.8	317.5	227.9	194.4	197.5	211.2	217.2	229.3	240.0	237.0
55°	5763.1	1354.9	278.0	197.5	165.5	174.7	177.7	170.1	164.0	153.4	148.9
57.5°	5755.6	1294.2	247.6	171.7	145.8	150.4	139.7	113.9	92.7	80.5	77.5
60°	5743.5	1219.8	223.3	144.3	129.1	123.1	100.2	62.3	44.1	41.0	41.0
62.5°	5611.3	1104.3	205.0	121.6	109.4	92.7	57.8	28.9	24.3	25.8	25.8
65°	5190.5	943.3	186.9	98.7	86.5	66.8	28.9	16.7	9.1	10.6	10.6
67.5°	4412.7	751.9	167.1	75.9	65.3	42.6	16.7	7.6	0.0	0.0	0.0
70°	2954.5	466.3	141.2	53.2	42.6	25.8	12.1	1.5	0.0	0.0	0.0
72.5°	1133.2	252.2	113.9	31.9	27.4	18.3	7.6	0.0	0.0	0.0	0.0
75°	255.2	165.5	79.0	22.8	19.7	12.1	3.1	0.0	0.0	0.0	0.0
77.5°	97.3	120.0	45.6	15.2	13.7	7.6	0.0	0.0	0.0	0.0	0.0
80°	47.0	71.4	21.2	9.1	7.6	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	24.3	27.4	9.1	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	13.7	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	4.6	1.5	1.5	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)