

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: P193458

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-AFL-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 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: 25930 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

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: 25 FT

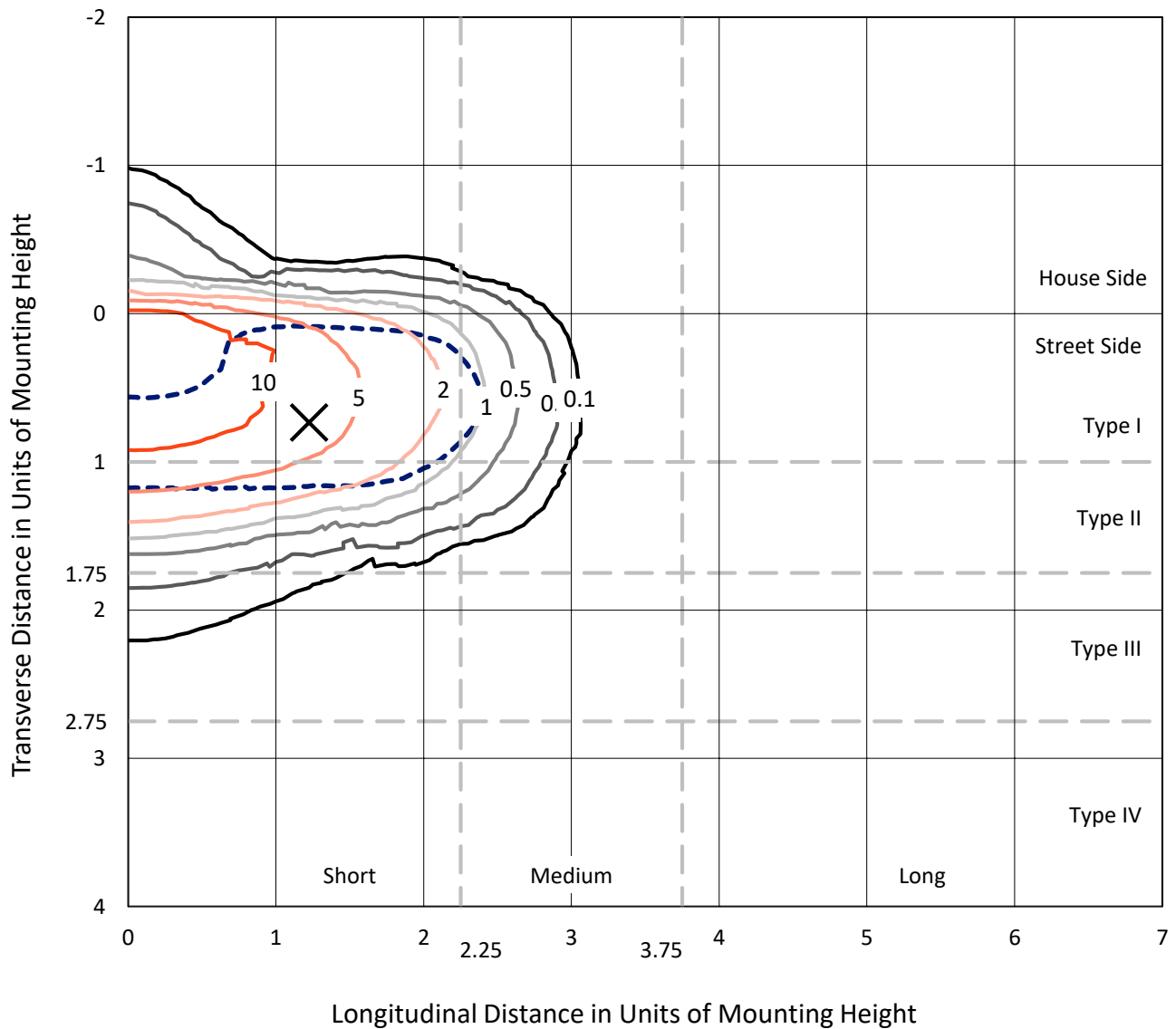


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

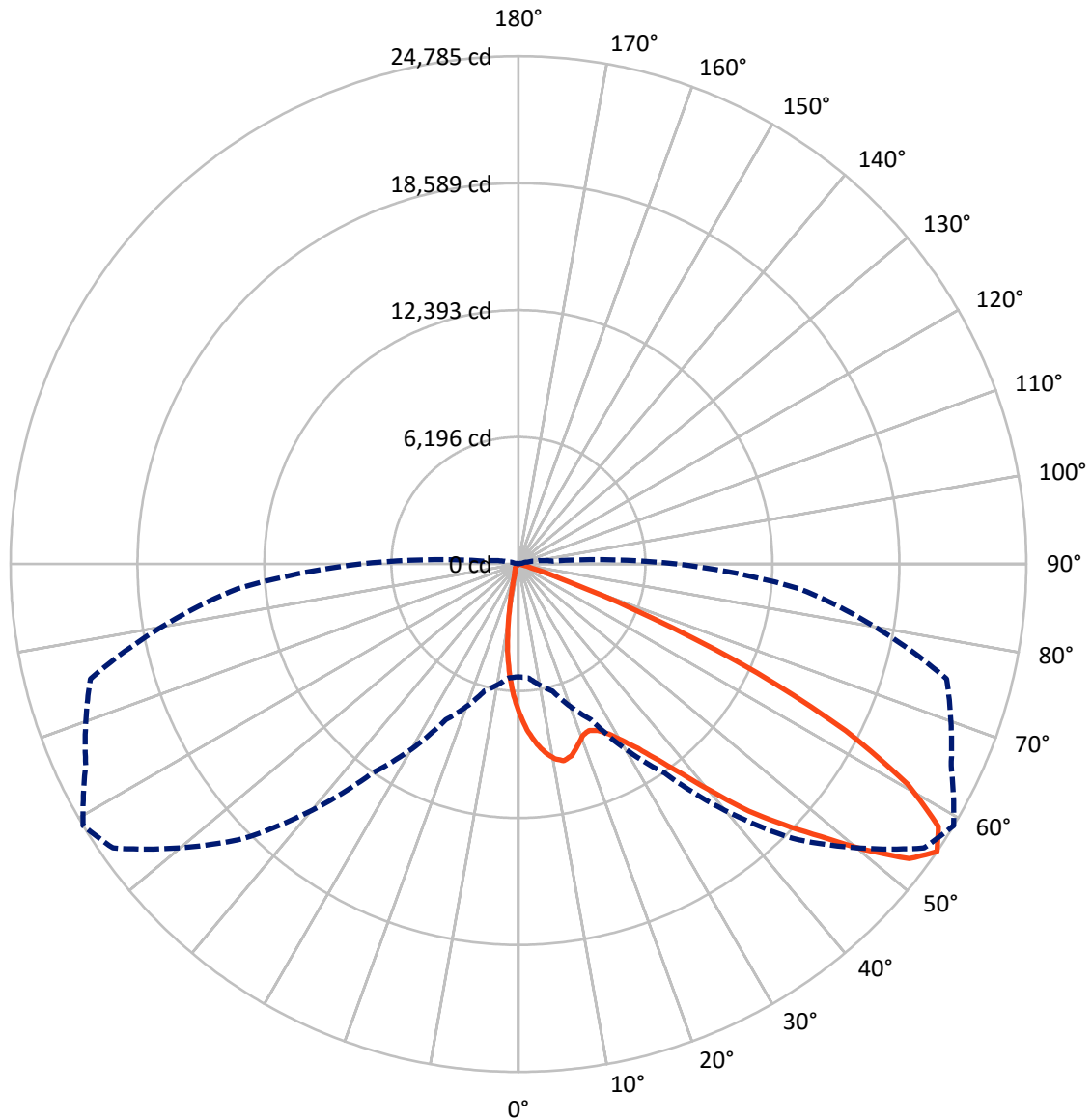


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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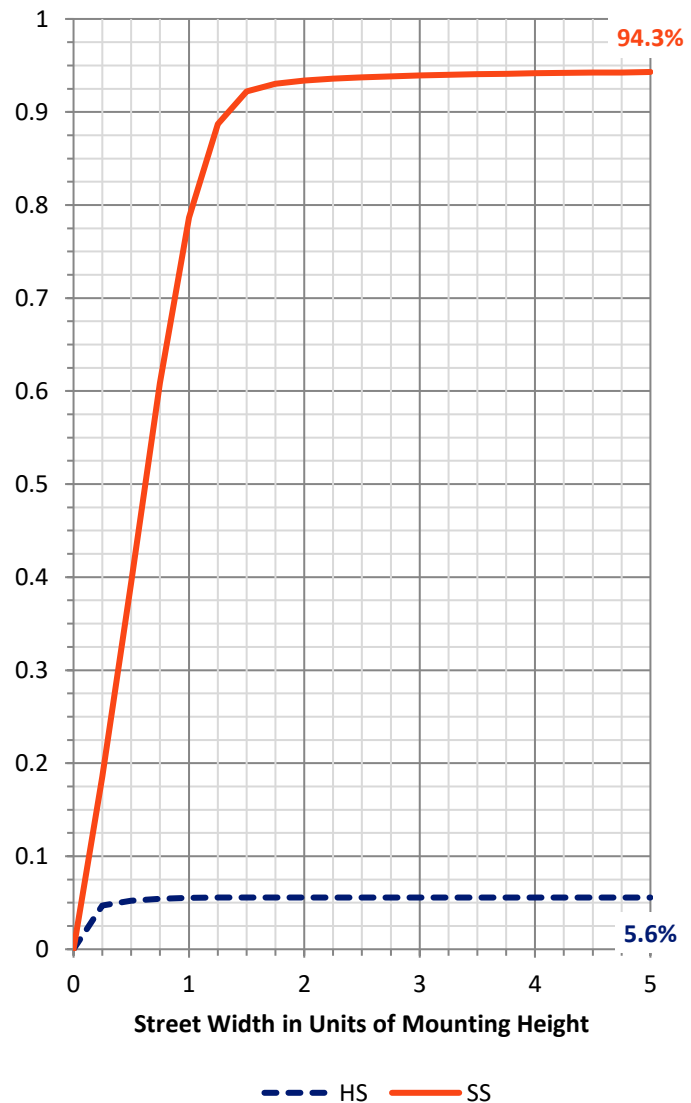
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1448.3	0.0	1448.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	24481.7	0.0	24481.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	25930.0	0.0	25930.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.4	2.4
10°-20°	1463.8	5.6
20°-30°	2490.9	9.6
30°-40°	4283.8	16.5
40°-50°	6613.7	25.5
50°-60°	6648.8	25.6
60°-70°	3409.6	13.1
70°-80°	369.5	1.4
80°-90°	38.6	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°	25930.0	100.0
0°-180°	25930.0	100.0



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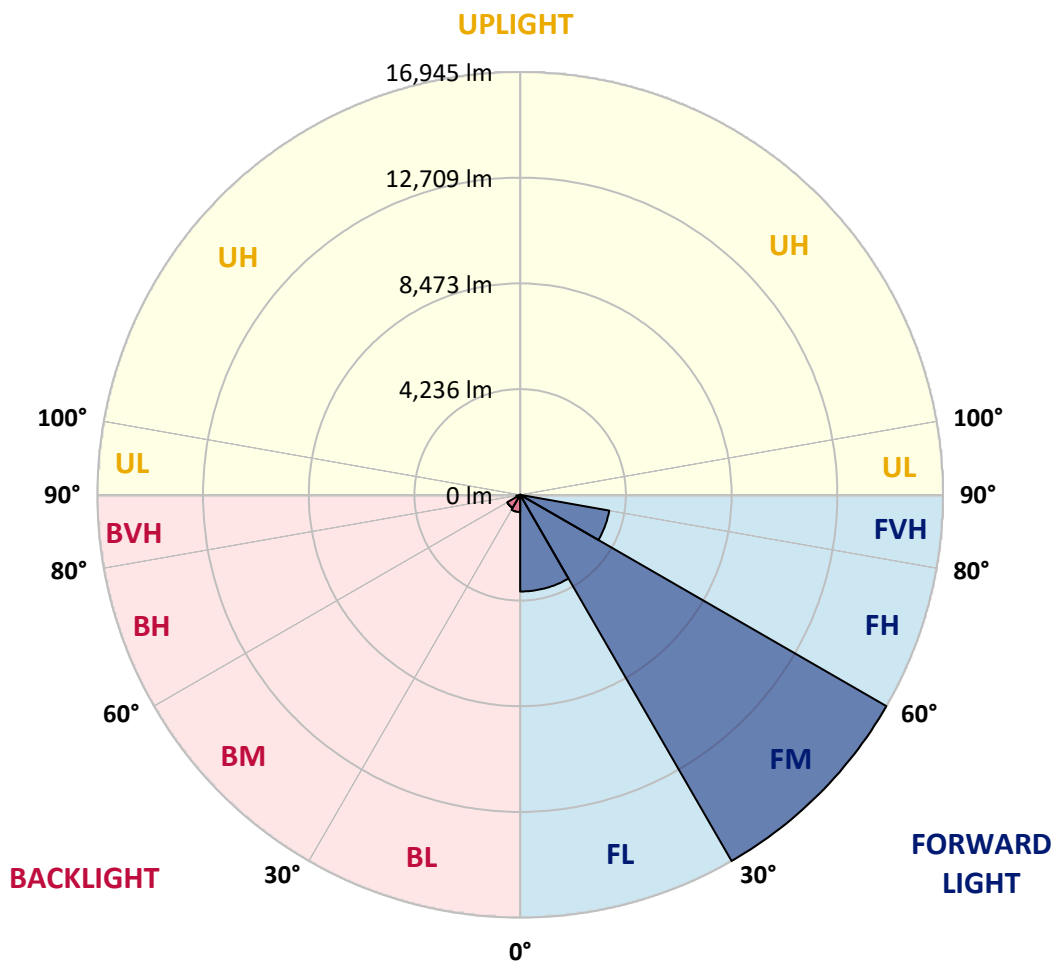
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3874.8	14.9			
FM	(30°-60°)	16945.1	65.3			
FH	(60°-80°)	3623.9	14.0			G2/5000
FVH	(80°-90°)	37.8	0.1			G1/100
BL	(0°-30°)	691.3	2.7	B2/1000		
BM	(30°-60°)	601.1	2.3	B1/1000		
BH	(60°-80°)	155.2	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2
2.5°	8636.6	8544.8	8517.3	8498.9	8414.7	8309.2	8165.3	8098.0	7960.3	7738.4	7466.0
5°	9427.8	9410.9	9349.7	9316.0	9225.8	9075.8	8846.3	8736.1	8517.3	8143.9	7655.7
7.5°	9081.9	9187.5	9271.7	9412.5	9590.0	9583.8	9391.0	9276.3	9031.4	8538.7	7866.9
10°	7746.0	7831.7	7969.4	8289.3	8941.1	9516.5	9743.0	9660.3	9464.5	8901.4	8070.4
12.5°	7484.4	7475.2	7499.7	7593.0	7934.2	8754.5	9683.3	9850.1	9810.3	9233.4	8263.2
15°	7623.6	7612.9	7609.8	7642.0	7724.6	8070.4	9234.9	9713.9	10021.5	9541.0	8427.0
17.5°	8013.8	7967.9	7943.4	7917.4	7892.9	7978.6	8696.3	9332.9	10053.6	9810.3	8563.2
20°	8682.5	8606.0	8515.7	8368.8	8231.1	8188.3	8469.8	8941.1	9938.8	10015.4	8651.9
22.5°	9522.6	9424.7	9268.6	9000.8	8720.8	8558.6	8581.5	8817.2	9767.5	10238.8	8693.2
25°	10466.8	10341.3	10133.2	9761.3	9349.7	9062.0	8912.1	8994.7	9689.4	10500.4	8740.7
27.5°	11478.3	11339.0	11066.6	10560.1	10093.4	9704.7	9398.7	9388.0	9822.6	10843.2	8817.2
30°	12480.6	12459.1	12104.1	11568.5	10950.3	10477.5	10036.8	9980.2	10194.4	11317.6	8968.7
32.5°	13818.0	13657.3	13222.7	12671.8	11958.8	11391.0	10869.2	10737.6	10765.2	11870.0	9202.8
35°	15504.3	15328.3	14716.2	13955.7	13158.5	12488.2	11911.3	11732.3	11665.0	12774.4	9597.6
37.5°	16593.8	16590.8	16206.7	15432.4	14577.0	13837.9	13210.5	13000.8	12864.7	13867.0	10209.7
40°	16622.9	16694.8	16745.3	16737.7	16128.6	15447.7	14890.7	14632.1	14315.3	15326.8	11000.8
42.5°	15730.8	15915.9	16361.2	17117.2	17478.3	17207.4	16737.7	16483.6	16012.3	16889.2	11964.9
45°	14525.0	14653.5	15432.4	16824.9	18209.7	18951.9	18593.8	18139.4	17518.1	18518.9	12829.5
47.5°	13984.8	14007.7	14511.2	16039.9	18264.8	20381.1	20598.4	19859.3	18886.1	19831.8	13505.8
50°	12370.4	12411.7	13106.4	14679.5	17619.1	21056.0	22612.2	21911.4	20378.1	20843.3	13752.2
52.5°	9323.7	9381.8	10263.3	12443.8	15844.0	20768.3	24053.7	23883.8	22012.4	21337.5	13766.0
55°	5501.2	5577.7	6419.3	8376.5	12462.2	18938.1	24160.8	24785.1	23302.4	21629.8	13744.5
57.5°	2569.3	2622.8	3104.8	4315.3	7750.6	14967.2	22548.0	24166.9	24013.9	21784.4	13896.0
60°	1365.0	1380.3	1496.6	1868.4	3502.7	9490.5	19400.3	21822.6	23365.1	21998.6	14081.2
62.5°	1043.6	1048.2	1042.1	1086.5	1472.1	4212.7	14664.2	17940.4	20753.0	21837.9	13876.1
65°	904.4	912.0	869.2	858.5	944.2	1502.7	8711.6	12788.1	16307.7	19669.6	12479.0
67.5°	811.0	814.1	762.1	717.7	733.0	812.6	3436.9	7000.8	10794.2	14417.8	9045.2
70°	746.8	743.7	687.1	616.7	596.8	555.5	1092.6	2566.2	5158.4	7311.4	4206.6
72.5°	661.1	662.6	635.0	543.2	495.8	388.7	506.5	748.3	1539.4	1992.4	985.5
75°	586.1	578.4	544.8	486.6	408.6	255.5	251.0	333.6	474.4	471.3	212.7
77.5°	423.9	416.2	426.9	399.4	313.7	165.3	125.5	160.7	192.8	186.7	59.7
80°	310.6	306.0	275.4	332.1	277.0	113.2	78.0	85.7	99.5	84.2	18.4
82.5°	212.7	211.2	194.3	183.6	157.6	68.9	49.0	53.6	64.3	47.4	9.2
85°	33.7	38.3	140.8	111.7	93.3	30.6	33.7	36.7	42.8	26.0	3.1
87.5°	0.0	0.0	65.8	58.1	18.4	12.2	19.9	21.4	21.4	13.8	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2	7299.2
2.5°	7326.7	7173.7	6890.6	6598.4	6327.5	6004.6	5782.7	5615.9	5423.1	5371.1	5484.3
5°	7377.2	7088.0	6479.0	5816.4	5193.6	4503.5	3975.5	3557.8	3179.8	3051.3	3167.6
7.5°	7456.8	7026.8	6033.7	4942.6	3859.2	2782.0	2044.4	1559.3	1250.2	1158.4	1207.4
10°	7536.4	6938.1	5518.0	3908.2	2426.9	1354.3	881.4	703.9	638.1	624.3	632.0
12.5°	7602.2	6818.7	4889.1	2778.9	1297.6	725.3	576.9	547.8	538.6	538.6	541.7
15°	7642.0	6638.1	4143.9	1767.4	746.8	547.8	503.4	494.3	494.3	495.8	498.9
17.5°	7637.4	6408.6	3328.3	1069.6	558.5	485.1	459.1	451.4	449.9	452.9	454.5
20°	7580.8	6108.7	2509.6	705.4	486.6	442.2	416.2	402.5	400.9	404.0	407.0
22.5°	7473.6	5738.4	1795.0	543.2	439.2	400.9	368.8	356.5	356.5	359.6	362.7
25°	7343.6	5285.4	1227.2	460.6	396.3	356.5	325.9	315.2	318.3	325.9	327.5
27.5°	7181.4	4775.9	834.0	394.8	344.3	312.2	289.2	281.6	289.2	299.9	303.0
30°	7042.1	4244.9	595.3	341.2	292.3	269.3	255.5	255.5	266.3	286.2	290.7
32.5°	6935.0	3730.7	459.1	301.5	254.0	234.1	226.5	234.1	251.0	270.9	275.4
35°	6921.2	3306.8	388.7	269.3	226.5	206.6	203.5	217.3	234.1	249.4	252.5
37.5°	7026.8	2915.1	350.4	243.3	202.0	183.6	180.6	197.4	214.2	232.6	237.2
40°	7227.3	2607.5	322.9	218.8	182.1	162.2	156.1	168.3	191.3	215.8	221.9
42.5°	7487.4	2353.5	292.3	194.3	162.2	134.7	127.0	140.8	165.3	191.3	198.9
45°	7735.3	2134.7	258.6	166.8	136.2	104.1	101.0	119.4	131.6	157.6	163.7
47.5°	7871.5	1941.9	229.5	136.2	105.6	84.2	84.2	88.8	101.0	131.6	137.7
50°	7825.6	1787.3	198.9	101.0	73.5	64.3	64.3	62.7	81.1	105.6	110.2
52.5°	7733.8	1698.6	171.4	78.0	50.5	45.9	41.3	45.9	56.6	67.3	68.9
55°	7720.0	1683.3	143.8	62.7	35.2	30.6	23.0	23.0	23.0	21.4	18.4
57.5°	7827.1	1707.7	120.9	50.5	26.0	19.9	12.2	0.0	0.0	0.0	0.0
60°	7937.3	1733.8	104.1	35.2	18.4	10.7	1.5	0.0	0.0	0.0	0.0
62.5°	7753.7	1675.6	87.2	21.4	13.8	4.6	0.0	0.0	0.0	0.0	0.0
65°	6811.1	1426.2	68.9	15.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4844.7	954.9	45.9	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2211.2	399.4	29.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	472.8	123.9	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	96.4	90.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	30.6	142.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.4	102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)