

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: P193485

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193485  
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-07-LED-E1-AFL-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA 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: 30852 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 448  
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

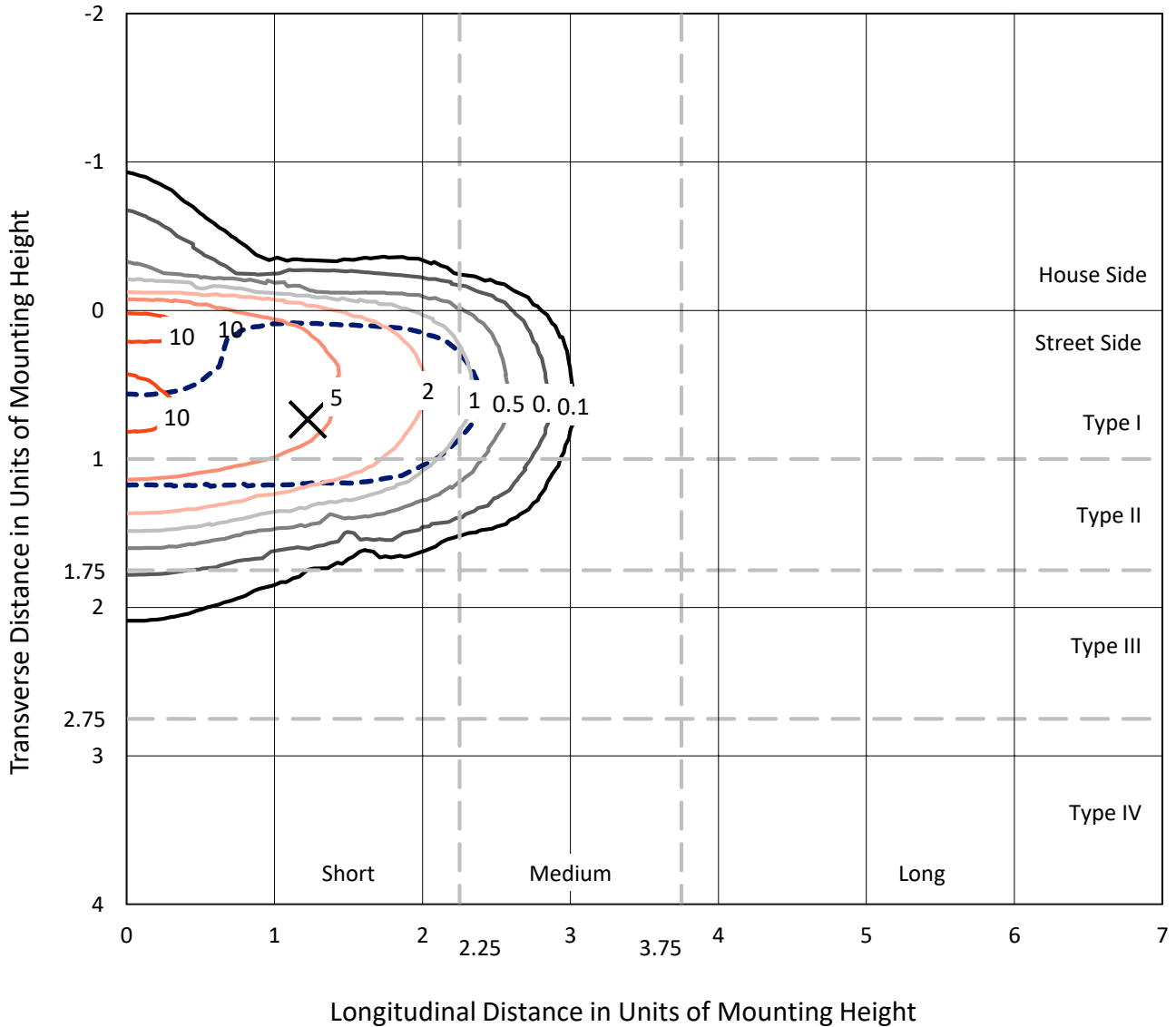


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

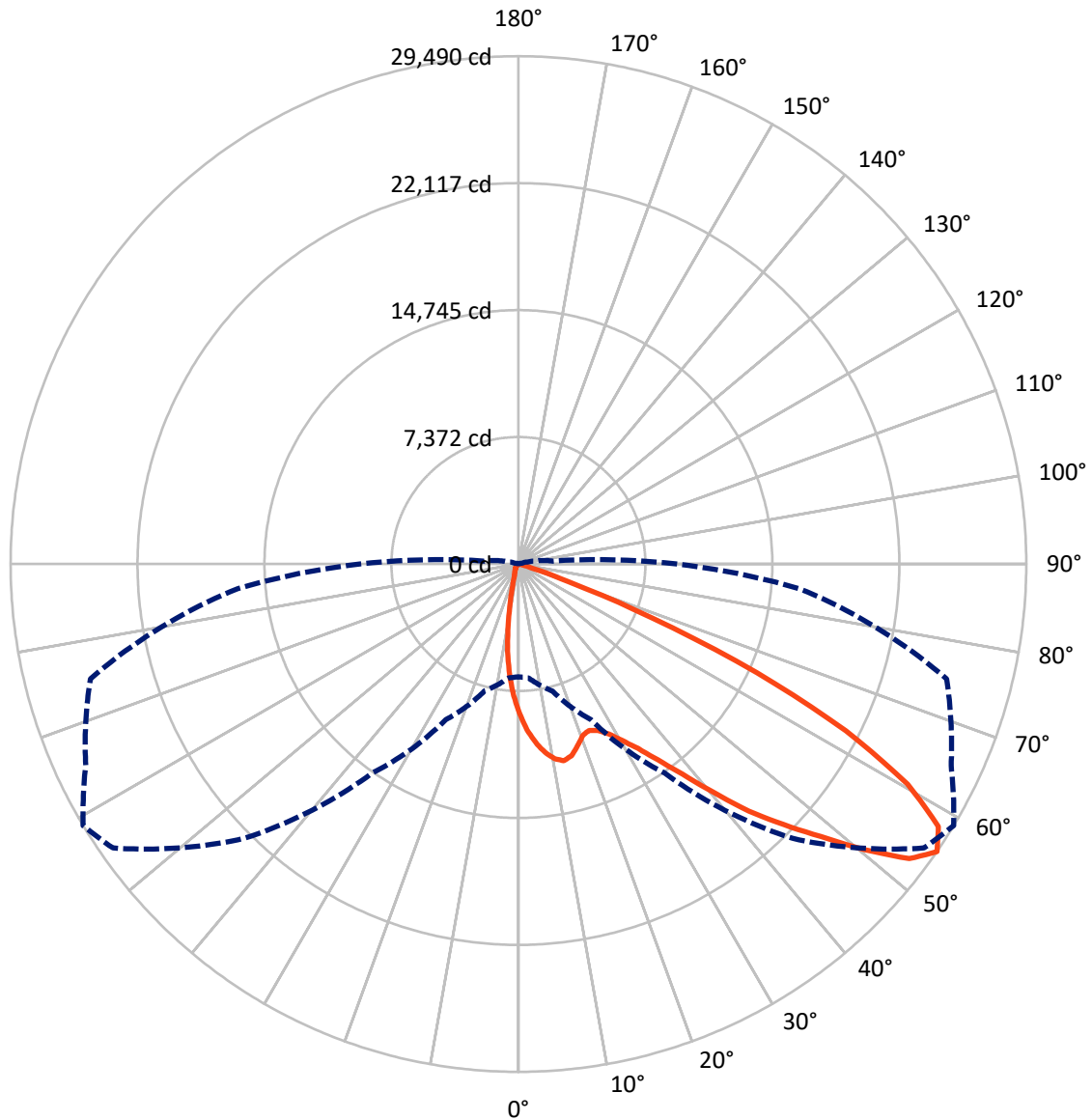


Based on 30 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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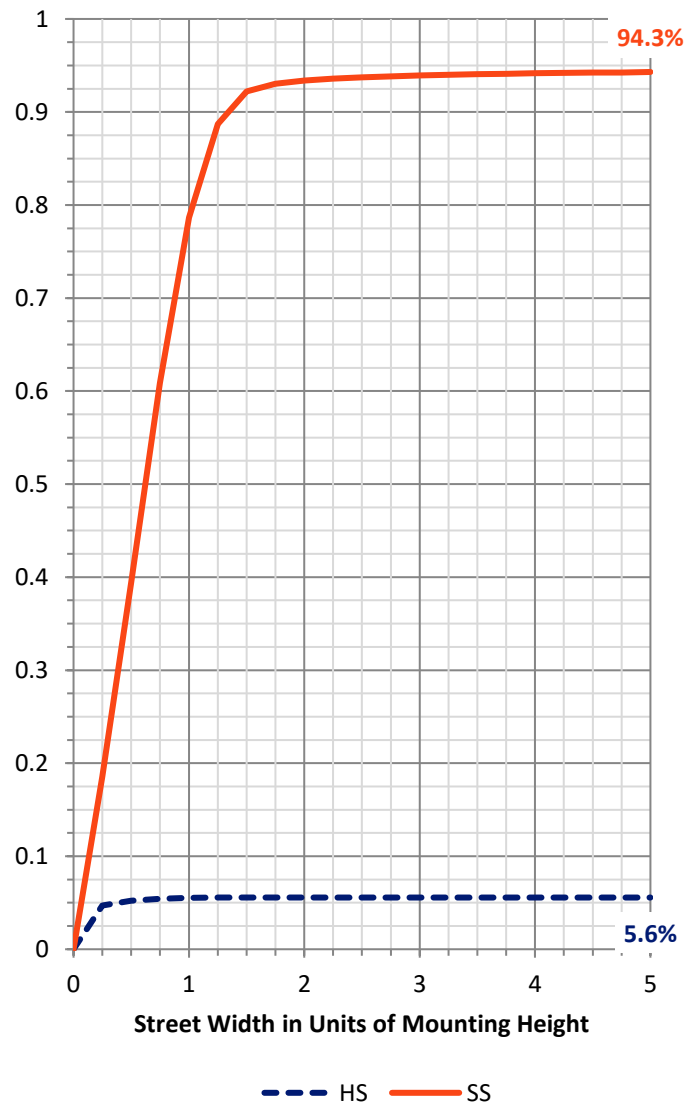
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1723.3	0.0	1723.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	29128.7	0.0	29128.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	30852.0	0.0	30852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	727.4	2.4
10°-20°	1741.7	5.6
20°-30°	2963.7	9.6
30°-40°	5096.9	16.5
40°-50°	7869.0	25.5
50°-60°	7910.9	25.6
60°-70°	4056.8	13.1
70°-80°	439.6	1.4
80°-90°	46.0	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°	30852.0	100.0
0°-180°	30852.0	100.0

**Coefficient of Utilization**



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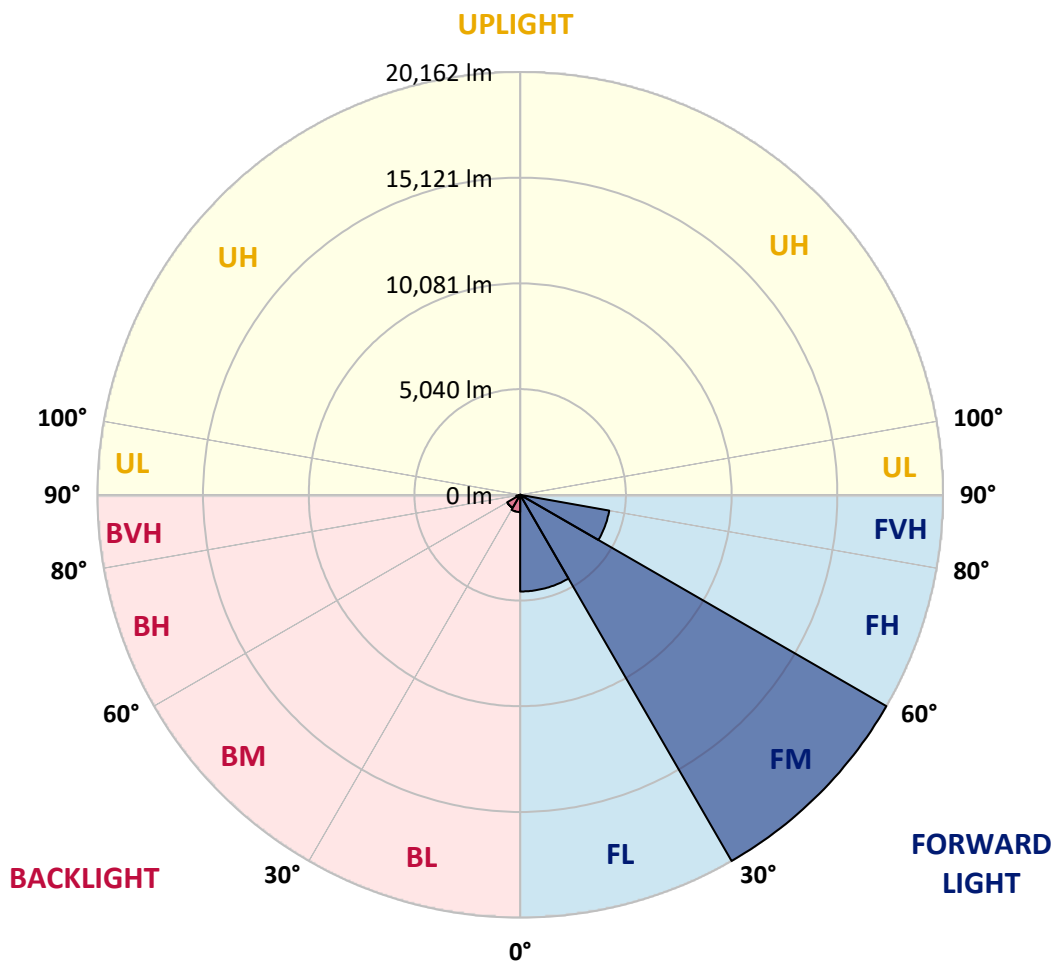
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4610.3	14.9			
FM (30°-60°)	20161.7	65.3			
FH (60°-80°)	4311.8	14.0			G2/5000
FVH (80°-90°)	45.0	0.1			G1/100
BL (0°-30°)	822.5	2.7	B2/1000		
BM (30°-60°)	715.2	2.3	B1/1000		
BH (60°-80°)	184.6	0.6	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7
2.5°	10276.0	10166.8	10134.0	10112.2	10012.0	9886.4	9715.2	9635.1	9471.3	9207.3	8883.2
5°	11217.3	11197.3	11124.5	11084.4	10977.0	10798.6	10525.5	10394.4	10134.0	9689.8	9108.9
7.5°	10805.8	10931.5	11031.6	11199.1	11410.3	11403.0	11173.6	11037.1	10745.8	10159.5	9360.2
10°	9216.4	9318.3	9482.2	9862.7	10638.3	11322.9	11592.4	11494.1	11261.0	10591.0	9602.4
12.5°	8905.0	8894.1	8923.2	9034.3	9440.3	10416.2	11521.4	11719.8	11672.5	10986.1	9831.8
15°	9070.7	9058.0	9054.3	9092.6	9190.9	9602.4	10987.9	11557.8	11923.7	11352.0	10026.6
17.5°	9535.0	9480.4	9451.2	9420.3	9391.2	9493.1	10347.0	11104.4	11962.0	11672.5	10188.6
20°	10330.6	10239.6	10132.2	9957.4	9793.5	9742.6	10077.6	10638.3	11825.4	11916.5	10294.2
22.5°	11330.2	11213.7	11028.0	10709.3	10376.2	10183.2	10210.5	10490.9	11621.5	12182.3	10343.4
25°	12453.6	12304.3	12056.7	11614.2	11124.5	10782.2	10603.7	10702.1	11528.7	12493.6	10399.8
27.5°	13657.1	13491.4	13167.3	12564.6	12009.3	11546.9	11182.7	11170.0	11687.1	12901.5	10490.9
30°	14849.6	14824.1	14401.7	13764.5	13028.9	12466.3	11942.0	11874.6	12129.5	13465.9	10671.1
32.5°	16440.9	16249.7	15732.6	15077.2	14228.8	13553.3	12932.4	12775.8	12808.6	14123.1	10949.7
35°	18447.3	18237.9	17509.6	16604.8	15656.2	14858.7	14172.3	13959.3	13879.2	15199.2	11419.4
37.5°	19743.6	19740.0	19283.0	18361.7	17344.0	16464.6	15718.1	15468.6	15306.6	16499.2	12147.7
40°	19778.2	19863.8	19923.9	19914.8	19190.2	18379.9	17717.2	17409.5	17032.6	18236.1	13089.0
42.5°	18716.8	18937.1	19466.9	20366.3	20796.0	20473.7	19914.8	19612.6	19051.8	20095.0	14236.0
45°	17282.1	17435.0	18361.7	20018.6	21666.3	22549.3	22123.3	21582.5	20843.3	22034.1	15264.7
47.5°	16639.4	16666.7	17265.7	19084.6	21731.8	24249.9	24508.4	23629.0	22471.0	23596.2	16069.5
50°	14718.5	14767.7	15594.3	17466.0	20963.5	25052.8	26904.4	26070.6	24246.2	24799.7	16362.6
52.5°	11093.5	11162.7	12211.4	14805.9	18851.5	24710.5	28619.5	28417.4	26190.7	25387.8	16379.0
55°	6545.4	6636.4	7637.8	9966.5	14827.8	22533.0	28747.0	29489.8	27725.6	25735.6	16353.5
57.5°	3057.0	3120.7	3694.2	5134.4	9221.8	17808.2	26828.0	28754.3	28572.2	25919.4	16533.8
60°	1624.1	1642.3	1780.6	2223.1	4167.6	11292.0	23082.8	25965.0	27800.2	26174.3	16754.1
62.5°	1241.7	1247.2	1239.9	1292.7	1751.5	5012.4	17447.7	21345.9	24692.3	25983.2	16510.1
65°	1076.0	1085.1	1034.2	1021.4	1123.4	1787.9	10365.2	15215.6	19403.2	23403.2	14847.8
67.5°	965.0	968.6	906.7	853.9	872.1	966.8	4089.3	8329.7	12843.2	17154.6	10762.1
70°	888.5	884.9	817.5	733.7	710.1	660.9	1300.0	3053.3	6137.6	8699.3	5005.1
72.5°	786.5	788.4	755.6	646.3	589.9	462.5	602.7	890.3	1831.6	2370.5	1172.5
75°	697.3	688.2	648.2	579.0	486.1	304.1	298.6	396.9	564.4	560.8	253.1
77.5°	504.3	495.2	508.0	475.2	373.2	196.6	149.3	191.2	229.4	222.1	71.0
80°	369.6	364.1	327.7	395.1	329.5	134.7	92.9	102.0	118.3	100.1	21.8
82.5°	253.1	251.3	231.2	218.5	187.5	81.9	58.3	63.7	76.5	56.4	10.9
85°	40.1	45.5	167.5	132.9	111.1	36.4	40.1	43.7	51.0	31.0	3.6
87.5°	0.0	0.0	78.3	69.2	21.8	14.6	23.7	25.5	25.5	16.4	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°	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7	8684.7
2.5°	8717.5	8535.4	8198.6	7850.8	7528.6	7144.4	6880.4	6682.0	6452.6	6390.6	6525.4
5°	8777.6	8433.5	7708.8	6920.5	6179.4	5358.3	4730.2	4233.1	3783.4	3630.5	3768.8
7.5°	8872.3	8360.6	7179.0	5880.9	4591.8	3310.0	2432.5	1855.3	1487.5	1378.3	1436.5
10°	8966.9	8255.0	6565.4	4650.1	2887.6	1611.3	1048.7	837.5	759.2	742.8	751.9
12.5°	9045.2	8113.0	5817.1	3306.4	1544.0	863.0	686.4	651.8	640.9	640.9	644.5
15°	9092.6	7898.2	4930.4	2102.9	888.5	651.8	599.0	588.1	588.1	589.9	593.5
17.5°	9087.1	7625.1	3960.0	1272.7	664.6	577.2	546.2	537.1	535.3	538.9	540.7
20°	9019.7	7268.2	2985.9	839.3	579.0	526.2	495.2	478.8	477.0	480.7	484.3
22.5°	8892.3	6827.6	2135.7	646.3	522.5	477.0	438.8	424.2	424.2	427.9	431.5
25°	8737.5	6288.7	1460.2	548.0	471.6	424.2	387.8	375.1	378.7	387.8	389.6
27.5°	8544.5	5682.4	992.3	469.7	409.7	371.4	344.1	335.0	344.1	356.9	360.5
30°	8378.8	5050.6	708.3	406.0	347.8	320.4	304.1	304.1	316.8	340.5	345.9
32.5°	8251.4	4438.9	546.2	358.7	302.2	278.6	269.5	278.6	298.6	322.3	327.7
35°	8235.0	3934.5	462.5	320.4	269.5	245.8	242.2	258.5	278.6	296.8	300.4
37.5°	8360.6	3468.4	416.9	289.5	240.3	218.5	214.8	234.9	254.9	276.7	282.2
40°	8599.2	3102.5	384.2	260.4	216.7	193.0	185.7	200.3	227.6	256.7	264.0
42.5°	8908.7	2800.2	347.8	231.2	193.0	160.2	151.1	167.5	196.6	227.6	236.7
45°	9203.6	2539.9	307.7	198.5	162.0	123.8	120.2	142.0	156.6	187.5	194.8
47.5°	9365.7	2310.5	273.1	162.0	125.6	100.1	100.1	105.6	120.2	156.6	163.9
50°	9311.0	2126.6	236.7	120.2	87.4	76.5	76.5	74.6	96.5	125.6	131.1
52.5°	9201.8	2021.0	203.9	92.9	60.1	54.6	49.2	54.6	67.4	80.1	81.9
55°	9185.4	2002.8	171.1	74.6	41.9	36.4	27.3	27.3	27.3	25.5	21.8
57.5°	9312.9	2031.9	143.8	60.1	31.0	23.7	14.6	0.0	0.0	0.0	0.0
60°	9444.0	2062.9	123.8	41.9	21.8	12.7	1.8	0.0	0.0	0.0	0.0
62.5°	9225.5	1993.7	103.8	25.5	16.4	5.5	0.0	0.0	0.0	0.0	0.0
65°	8103.9	1696.9	81.9	18.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5764.3	1136.1	54.6	10.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	2630.9	475.2	34.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	562.6	147.5	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	114.7	107.4	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.4	169.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.8	122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	18.2	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)