

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: P193708

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38846 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

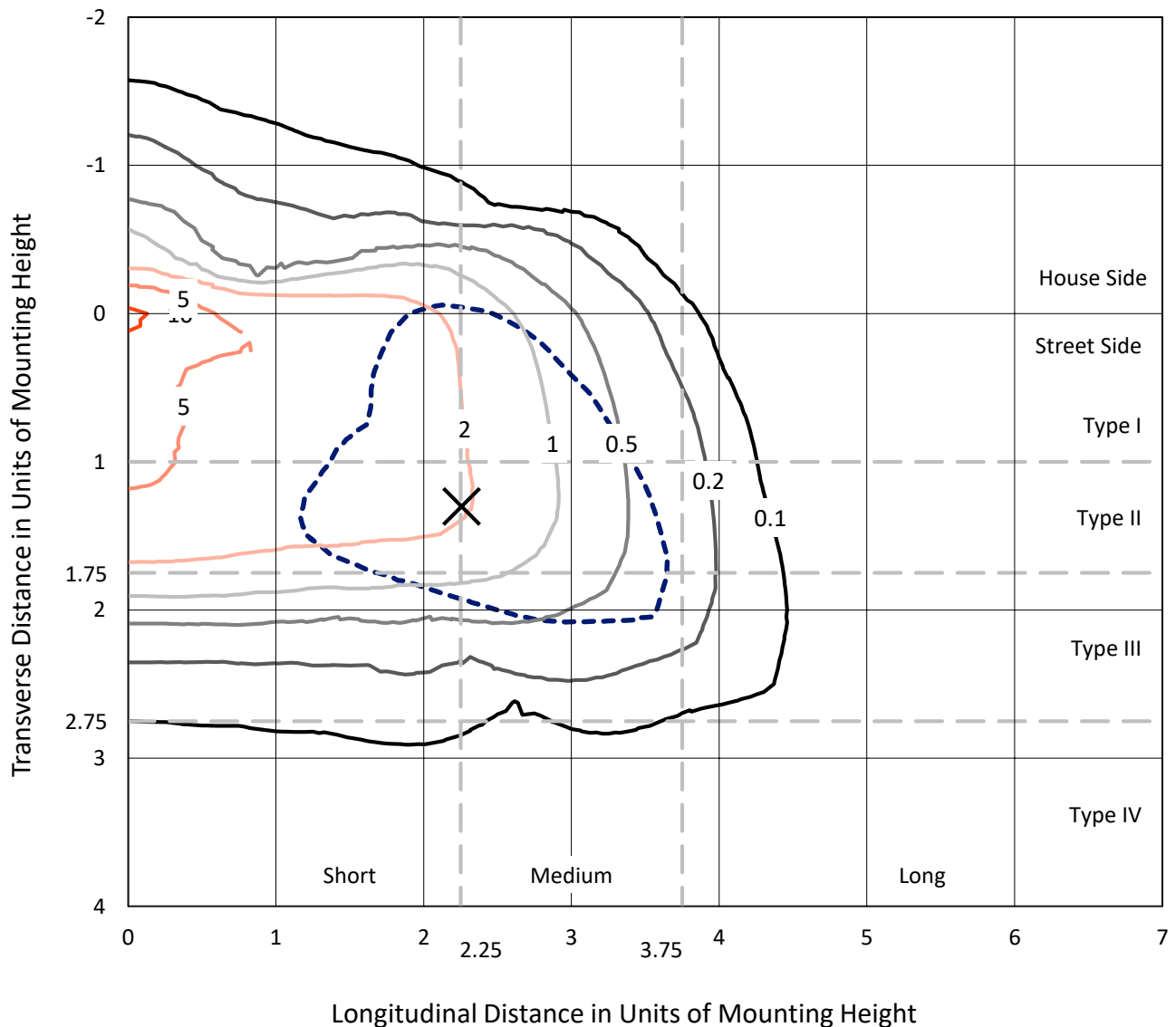


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

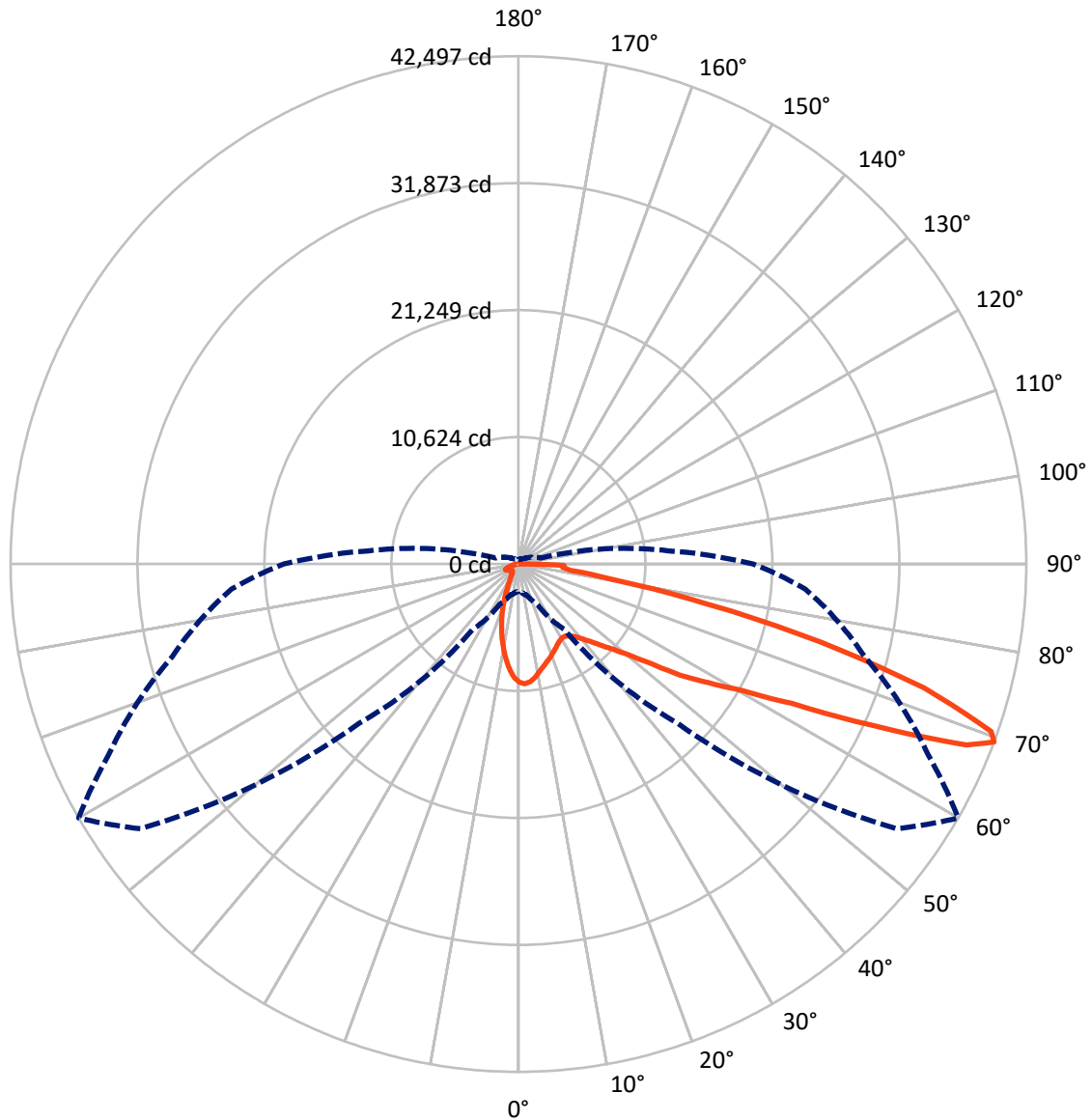


Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5526.6	0.0	5526.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33319.4	0.0	33319.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	38846.0	0.0	38846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.0	2.2
10°-20°	1783.2	4.6
20°-30°	2272.1	5.8
30°-40°	3123.6	8.0
40°-50°	5068.3	13.0
50°-60°	8128.3	20.9
60°-70°	10818.1	27.8
70°-80°	5840.9	15.0
80°-90°	974.6	2.5
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°	38846.0	100.0
0°-180°	38846.0	100.0

Coefficient of Utilization



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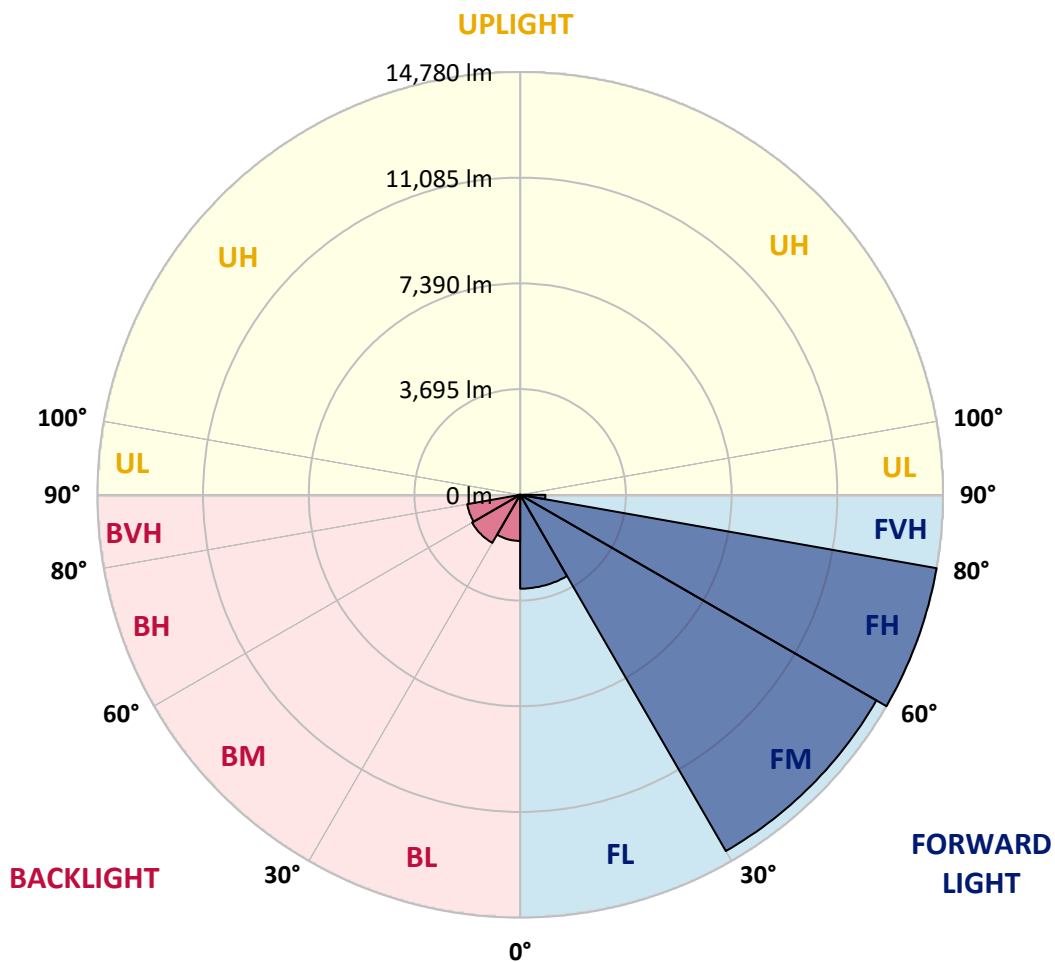
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3280.0	8.4			
FM (30°-60°)	14378.5	37.0			
FH (60°-80°)	14780.2	38.0			G5
FVH (80°-90°)	880.8	2.3			G5
BL (0°-30°)	1612.3	4.2	B3/2500		
BM (30°-60°)	1941.6	5.0	B2/2500		
BH (60°-80°)	1878.9	4.8	B3/2500		G3/2500
BVH (80°-90°)	93.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6
2.5°	10101.2	10123.7	10114.3	10108.7	10125.6	10099.3	10044.9	10028.0	10001.8	9939.8	9834.7
5°	9722.2	9789.7	9786.0	9836.6	9921.1	9943.6	9919.2	9922.9	9874.2	9797.2	9622.7
7.5°	9067.3	9095.4	9110.4	9221.1	9375.0	9498.9	9603.9	9637.7	9615.2	9549.5	9324.3
10°	8391.7	8414.2	8449.9	8579.4	8774.5	8945.3	9144.2	9258.7	9307.5	9296.2	9044.7
12.5°	7811.9	7834.4	7881.3	8027.7	8260.4	8470.5	8759.5	8902.1	9018.5	9087.9	8817.7
15°	7292.1	7340.9	7385.9	7554.8	7815.6	8091.5	8418.0	8598.1	8778.3	8934.0	8616.9
17.5°	6886.8	6935.6	6961.8	7115.7	7393.4	7731.2	8114.0	8326.0	8551.2	8806.4	8418.0
20°	6652.2	6674.7	6663.5	6749.8	6999.4	7357.8	7811.9	8057.7	8329.8	8686.3	8219.1
22.5°	6586.5	6588.4	6547.1	6537.7	6699.1	7001.2	7489.1	7787.5	8121.5	8607.5	8048.3
25°	6746.0	6740.4	6627.8	6535.9	6552.7	6729.1	7177.6	7524.8	7947.0	8590.6	7917.0
27.5°	7100.7	7117.6	6950.6	6777.9	6607.2	6601.5	6941.2	7307.1	7804.4	8667.6	7860.7
30°	7598.0	7626.1	7447.8	7228.3	6907.4	6642.8	6849.2	7177.6	7716.2	8827.1	7851.3
32.5°	8142.1	8172.2	8037.1	7806.3	7385.9	6898.0	6913.0	7188.9	7712.4	9050.4	7915.1
35°	8722.0	8755.8	8686.3	8491.2	8023.9	7369.0	7157.0	7370.9	7834.4	9391.9	8085.8
37.5°	9369.4	9421.9	9440.7	9254.9	8755.8	7990.1	7556.7	7716.2	8110.2	9866.7	8399.2
40°	10302.0	10375.2	10369.6	10103.1	9594.6	8828.9	8174.0	8215.3	8540.0	10500.9	8900.3
42.5°	12088.4	12103.4	11636.2	11056.4	10517.8	9710.9	8902.1	8868.4	9132.9	11304.1	9637.7
45°	14360.9	14298.9	13259.4	12139.1	11482.3	10724.2	9849.8	9684.6	9885.4	12283.6	10561.0
47.5°	16246.8	16104.1	14790.6	13244.4	12503.1	11825.7	10962.5	10673.5	10784.3	13394.5	11754.4
50°	16901.7	16794.7	15706.3	14163.8	13469.5	13169.3	12332.4	11923.3	11953.3	14719.3	13152.4
52.5°	16760.9	16745.9	16019.7	14770.0	14374.0	14580.4	14272.7	13719.1	13426.4	16190.5	14661.1
55°	16428.8	16460.7	16198.0	15475.5	15408.0	15942.8	16807.8	16398.8	15488.7	17674.8	16220.5
57.5°	15274.7	15357.3	15935.3	16363.1	17072.4	17868.1	18849.5	18733.1	17708.6	19279.2	18074.5
60°	12306.1	12497.5	14047.5	16190.5	18785.7	21273.9	21713.0	21442.8	19997.9	21270.2	20523.3
62.5°	8622.5	8821.4	10664.2	14017.5	18504.2	25120.7	26832.1	25666.8	23285.5	24203.1	23692.7
65°	4616.2	4711.9	6119.3	9725.9	15621.9	25914.5	34313.7	32540.4	28490.9	27819.1	26404.3
67.5°	2546.4	2599.0	3137.5	4910.8	10005.5	22820.1	39080.0	40419.9	34996.8	30226.7	25910.7
69°	2302.5	2351.3	2704.0	3719.2	6695.4	18868.2	38614.7	42497.2	37849.1	29988.4	24086.8
70°	2251.8	2296.8	2614.0	3428.4	5419.3	15552.5	37055.3	41966.1	38528.3	29134.6	22495.5
72.5°	2026.6	2075.4	2383.2	3079.3	4631.2	7753.7	29352.3	35482.8	34979.9	25261.5	17063.0
75°	1889.6	1934.7	2456.3	3015.5	4434.2	4907.1	19350.5	26150.9	25713.7	17671.0	9200.5
77.5°	808.8	805.0	1139.0	2552.0	4499.9	4751.3	10397.7	16336.8	14905.1	7552.9	2642.1
80°	540.4	531.1	540.4	750.6	4126.4	4777.6	5447.5	8292.3	6263.8	1925.3	1302.3
82.5°	465.4	457.9	474.8	457.9	1450.5	5453.1	4631.2	4409.8	2978.0	1094.0	645.5
85°	313.4	300.2	409.1	411.0	684.9	4845.1	5216.7	3724.9	2409.4	649.3	319.0
87.5°	150.1	146.4	238.3	290.9	401.6	1968.5	5852.8	3816.8	2430.1	332.1	152.0
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°	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6	9898.6
2.5°	9802.8	9725.9	9650.9	9560.8	9467.0	9361.9	9309.3	9256.8	9243.7	9228.6	9176.1
5°	9532.6	9423.8	9236.1	9029.7	8812.1	8600.0	8438.6	8337.3	8260.4	8221.0	8151.5
7.5°	9183.6	9024.1	8695.7	8339.2	7973.3	7639.2	7350.3	7168.2	6995.6	6914.9	6823.0
10°	8851.5	8613.1	8102.7	7577.3	7051.9	6547.1	6072.4	5736.5	5438.1	5271.1	5152.9
12.5°	8566.2	8239.7	7532.3	6821.1	6100.5	5381.8	4670.6	4111.4	3644.2	3398.3	3272.6
15°	8288.5	7894.4	6990.0	6087.4	5162.3	4184.6	3250.1	2615.8	2229.3	2075.4	2022.9
17.5°	8037.1	7532.3	6445.8	5348.0	4194.0	3011.8	2184.2	1835.2	1687.0	1636.3	1619.4
20°	7765.0	7166.4	5881.0	4574.9	3184.4	2105.4	1705.7	1551.9	1491.8	1476.8	1469.3
22.5°	7502.3	6806.1	5340.5	3747.4	2287.5	1625.1	1465.5	1401.7	1392.4	1405.5	1405.5
25°	7279.0	6483.3	4756.9	2882.3	1679.5	1368.0	1311.7	1296.7	1332.3	1381.1	1390.5
27.5°	7111.9	6218.7	4135.8	2128.0	1337.9	1189.7	1187.8	1212.2	1300.4	1394.2	1413.0
30°	6997.5	5967.3	3471.5	1535.0	1122.1	1047.1	1077.1	1129.7	1259.1	1392.4	1428.0
32.5°	6939.3	5781.5	2779.1	1187.8	960.8	919.5	970.2	1034.0	1161.6	1285.4	1332.3
35°	6984.3	5644.5	2126.1	990.8	848.2	816.3	868.8	930.7	1005.8	1058.3	1094.0
37.5°	7153.2	5590.1	1604.4	887.6	771.2	741.2	782.5	818.2	848.2	863.2	880.1
40°	7517.3	5648.3	1285.4	835.0	728.1	690.6	707.4	720.6	739.3	754.4	761.9
42.5°	8053.9	5822.8	1152.2	814.4	705.6	651.1	647.4	653.0	677.4	705.6	711.2
45°	8804.5	6130.5	1142.8	827.5	694.3	619.2	602.4	609.9	647.4	690.6	698.1
47.5°	9763.4	6599.7	1217.9	866.9	703.7	602.4	574.2	583.6	630.5	688.7	698.1
50°	10925.0	7254.6	1343.6	925.1	745.0	606.1	564.8	570.5	619.2	683.0	692.4
52.5°	12296.7	8183.4	1480.6	981.4	788.1	630.5	572.3	559.2	604.2	660.5	671.8
55°	13822.3	9375.0	1621.3	1032.1	810.6	660.5	587.3	544.2	576.1	623.0	632.4
57.5°	15695.1	11041.3	1865.2	1080.9	825.7	681.2	602.4	529.2	540.4	574.2	581.7
60°	18230.2	13398.2	2295.0	1161.6	859.4	688.7	600.5	516.0	504.8	523.5	527.3
62.5°	21268.3	15957.8	2653.4	1262.9	915.7	694.3	589.2	506.7	474.8	474.8	478.5
65°	23071.6	16642.7	2454.5	1347.3	962.6	688.7	576.1	497.3	452.2	431.6	433.5
67.5°	21542.2	14636.7	2103.6	1364.2	960.8	662.4	555.4	480.4	429.7	397.8	395.9
69°	19626.3	12628.9	1945.9	1319.2	915.7	628.6	529.2	461.6	412.8	379.1	377.2
70°	18082.0	11403.5	1842.7	1270.4	866.9	604.2	508.5	444.7	399.7	367.8	364.0
72.5°	13146.8	7472.2	1574.4	1092.1	714.9	506.7	439.1	390.3	356.5	337.8	334.0
75°	6569.6	3563.5	1277.9	885.7	547.9	405.3	360.3	326.5	309.6	305.9	304.0
77.5°	2158.0	1632.6	913.9	660.5	407.2	317.1	290.9	266.5	262.7	274.0	270.2
80°	1185.9	949.5	579.8	437.2	277.7	232.7	228.9	215.8	221.4	240.2	236.4
82.5°	604.2	493.5	358.4	262.7	187.7	167.0	182.0	174.5	182.0	198.9	197.0
85°	298.4	270.2	227.1	159.5	123.8	107.0	129.5	135.1	138.9	152.0	152.0
87.5°	172.6	159.5	120.1	75.1	61.9	56.3	75.1	73.2	86.3	93.8	91.9
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)