

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: P191184

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191184
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-06-LED-E1-SL3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA 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: 39953.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

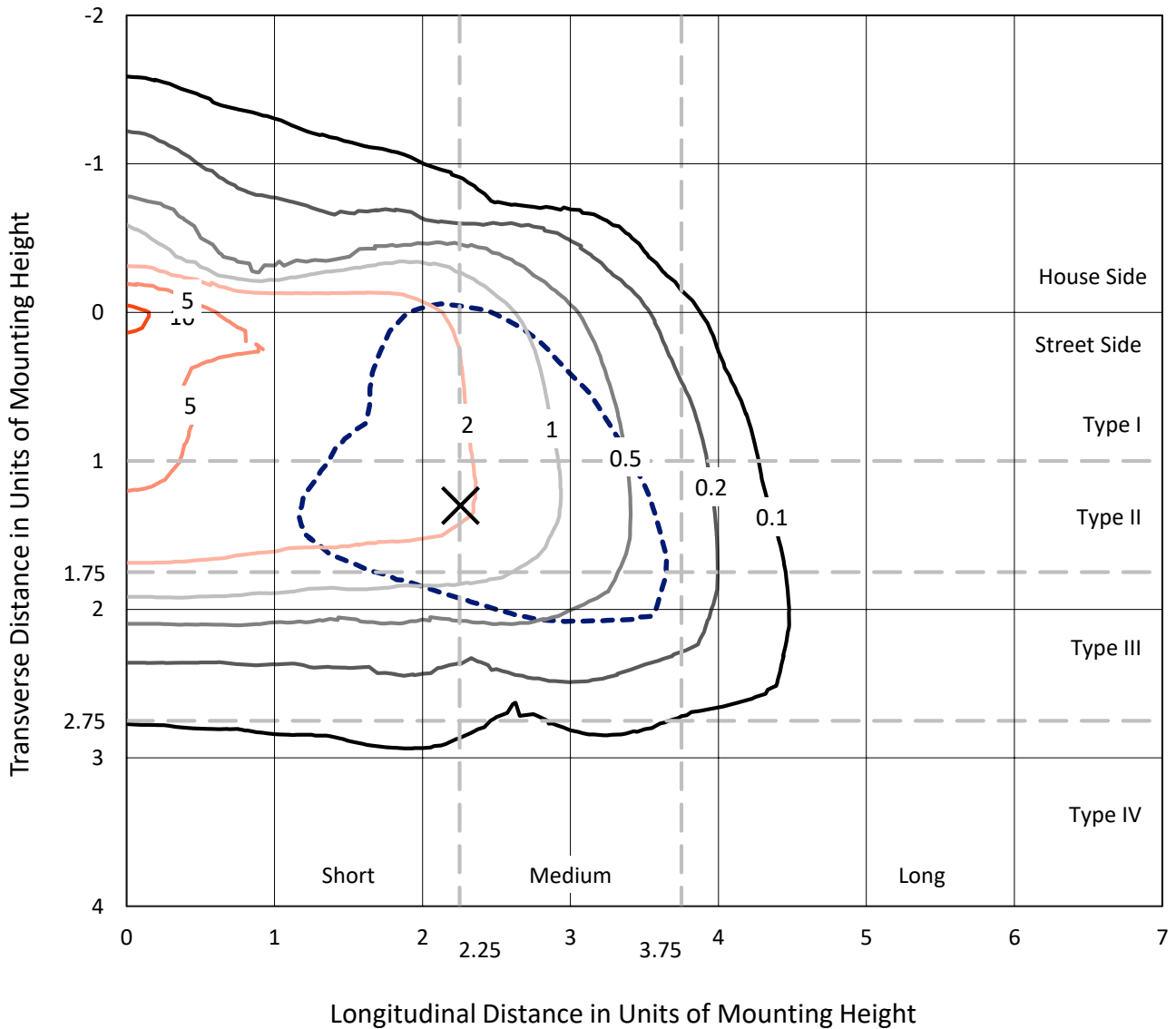
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191184
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-1200

Iso-Footcandle Lines of Horizontal Illumination

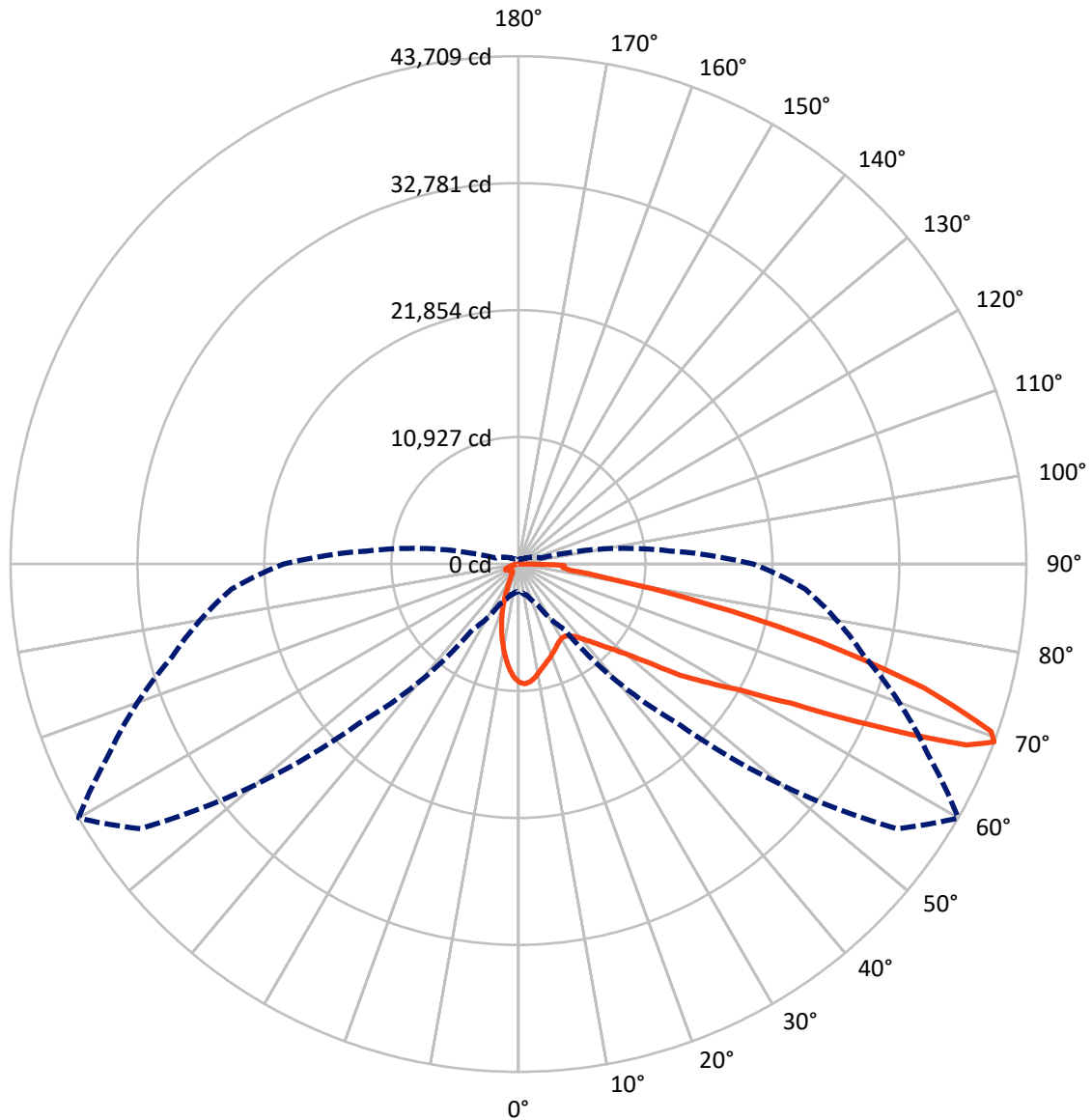
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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	5684.1	0.0	5684.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34269.3	0.0	34269.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	39953.4	0.0	39953.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.8	2.2
10°-20°	1834.0	4.6
20°-30°	2336.9	5.8
30°-40°	3212.6	8.0
40°-50°	5212.8	13.0
50°-60°	8360.0	20.9
60°-70°	11126.5	27.8
70°-80°	6007.4	15.0
80°-90°	1002.4	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°	39953.4	100.0
0°-180°	39953.4	100.0



REPORT NUMBER: P191184

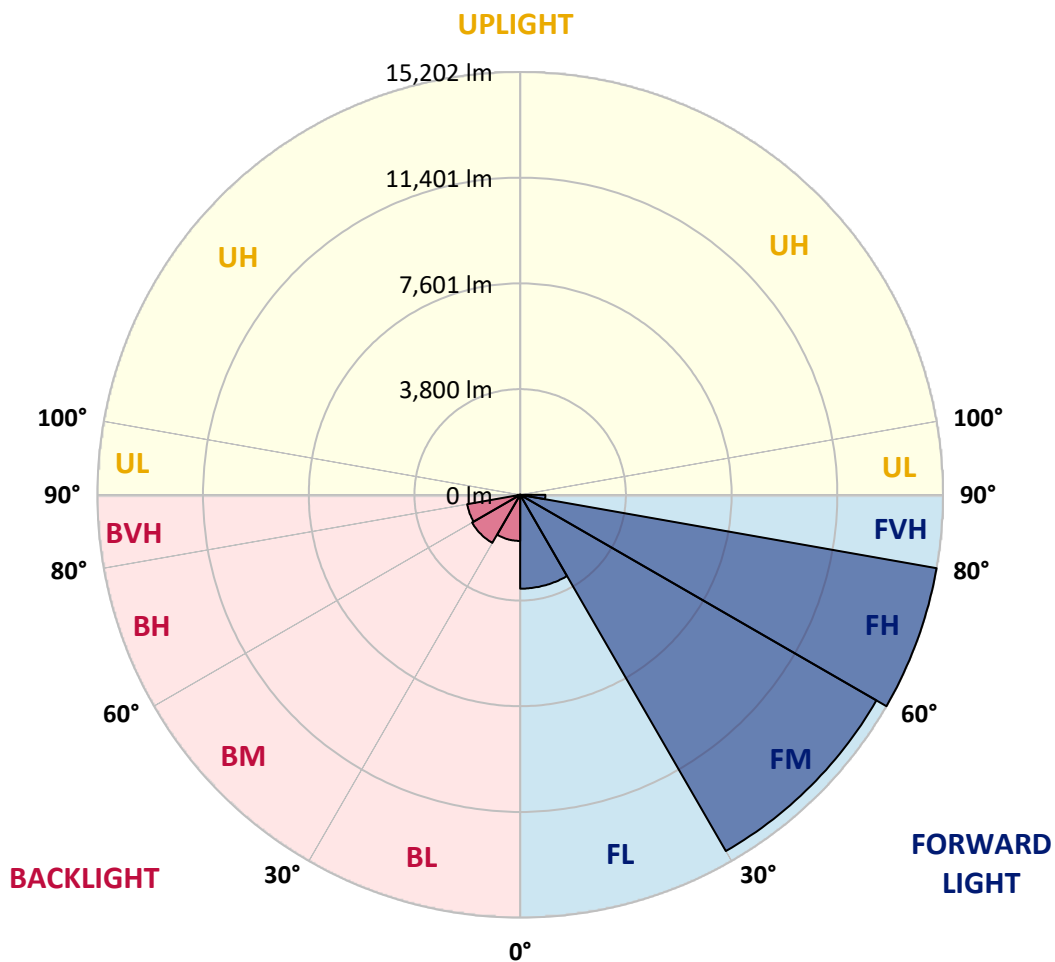
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3373.5	8.4			
FM	(30°-60°)	14788.4	37.0			
FH	(60°-80°)	15201.5	38.0			G5
FVH	(80°-90°)	905.9	2.3			G5
BL	(0°-30°)	1658.2	4.2	B3/2500		
BM	(30°-60°)	1996.9	5.0	B2/2500		
BH	(60°-80°)	1932.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	96.5	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°	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7
2.5°	10389.2	10412.3	10402.7	10396.9	10414.3	10387.2	10331.3	10313.9	10286.9	10223.2	10115.1
5°	9999.3	10068.8	10064.9	10117.1	10203.9	10227.1	10202.0	10205.8	10155.7	10076.5	9897.0
7.5°	9325.7	9354.7	9370.1	9484.0	9642.2	9769.7	9877.7	9912.5	9889.3	9821.8	9590.2
10°	8630.9	8654.1	8690.8	8824.0	9024.7	9200.3	9404.9	9522.6	9572.8	9561.2	9302.6
12.5°	8034.6	8057.8	8106.0	8256.5	8495.8	8712.0	9009.2	9155.9	9275.6	9347.0	9069.1
15°	7500.0	7550.2	7596.4	7770.1	8038.4	8322.1	8657.9	8843.2	9028.6	9188.8	8862.5
17.5°	7083.1	7133.2	7160.2	7318.5	7604.2	7951.6	8345.3	8563.4	8795.0	9057.5	8657.9
20°	6841.8	6865.0	6853.5	6942.2	7198.9	7567.5	8034.6	8287.4	8567.2	8933.9	8453.4
22.5°	6774.3	6776.2	6733.8	6724.1	6890.1	7200.9	7702.6	8009.5	8353.0	8852.9	8277.7
25°	6938.4	6932.5	6816.7	6722.2	6739.5	6921.0	7382.2	7739.2	8173.6	8835.5	8142.7
27.5°	7303.2	7320.4	7148.7	6971.1	6795.6	6789.7	7139.1	7515.4	8026.9	8914.6	8084.8
30°	7814.5	7843.5	7660.2	7434.3	7104.3	6832.2	7044.4	7382.2	7936.2	9078.7	8075.1
32.5°	8374.3	8405.2	8266.2	8028.8	7596.4	7094.7	7110.1	7393.8	7932.3	9308.3	8140.7
35°	8970.7	9005.3	8933.9	8733.2	8252.7	7579.1	7361.1	7581.0	8057.8	9659.6	8316.4
37.5°	9636.5	9690.5	9709.8	9518.8	9005.3	8217.9	7772.1	7936.2	8341.4	10147.9	8638.6
40°	10595.7	10670.9	10665.2	10391.1	9868.1	9080.6	8407.0	8449.6	8783.4	10800.2	9154.0
42.5°	12433.0	12448.5	11967.9	11371.5	10817.6	9987.7	9155.9	9121.1	9393.2	11626.3	9912.5
45°	14770.3	14706.6	13637.4	12485.1	11809.7	11030.0	10130.6	9960.7	10167.2	12633.7	10862.0
47.5°	16709.9	16563.2	15212.2	13621.9	12859.5	12162.9	11275.1	10977.8	11091.7	13776.3	12089.5
50°	17383.5	17273.4	16154.0	14567.6	13853.5	13544.7	12684.0	12263.2	12294.0	15138.9	13527.3
52.5°	17238.8	17223.3	16476.4	15191.0	14783.8	14996.0	14679.5	14110.2	13809.1	16652.0	15079.0
55°	16897.1	16929.9	16659.8	15916.7	15847.2	16397.3	17286.9	16866.2	15930.2	18178.7	16682.9
57.5°	15710.2	15795.1	16389.5	16829.6	17559.2	18377.4	19386.9	19267.2	18213.3	19828.8	18589.7
60°	12656.9	12853.8	14448.0	16652.0	19321.2	21880.4	22331.9	22054.1	20568.0	21876.5	21108.4
62.5°	8868.4	9073.0	10968.2	14417.1	19031.7	25836.9	27597.1	26398.5	23949.3	24893.1	24368.1
65°	4747.8	4846.2	6293.7	10003.1	16067.2	26653.3	35291.9	33468.1	29303.1	28612.2	27157.0
67.5°	2619.0	2673.1	3227.0	5050.8	10290.8	23470.7	40194.1	41572.1	35994.5	31088.4	26649.4
69°	2368.1	2418.3	2781.1	3825.2	6886.2	19406.1	39715.5	43708.6	38928.0	30843.3	24773.4
70°	2316.0	2362.3	2688.5	3526.1	5573.9	15995.8	38111.7	43162.4	39626.7	29965.1	23136.8
72.5°	2084.4	2134.6	2451.1	3167.2	4763.3	7974.7	30189.0	36494.3	35977.1	25981.6	17549.4
75°	1943.5	1989.8	2526.4	3101.5	4560.6	5046.9	19902.1	26896.4	26446.8	18174.8	9462.8
77.5°	831.9	828.0	1171.5	2624.8	4628.1	4886.7	10694.1	16802.6	15329.9	7768.2	2717.5
80°	555.9	546.2	555.9	772.0	4244.0	4913.7	5602.8	8528.6	6442.3	1980.1	1339.5
82.5°	478.6	471.0	488.3	471.0	1491.9	5608.5	4763.3	4535.5	3062.9	1125.1	663.9
85°	322.3	308.8	420.7	422.7	704.4	4983.2	5365.4	3831.1	2478.1	667.8	328.1
87.5°	154.4	150.6	245.1	299.1	413.1	2024.5	6019.7	3925.6	2499.4	341.6	156.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191184
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7	10180.7
2.5°	10082.3	10003.1	9926.0	9833.3	9736.9	9628.7	9574.7	9520.7	9507.2	9491.8	9437.6
5°	9804.4	9692.5	9499.4	9287.2	9063.2	8845.1	8679.2	8575.0	8495.8	8455.3	8383.9
7.5°	9445.4	9281.3	8943.6	8576.9	8200.6	7857.0	7559.8	7372.6	7195.0	7112.1	7017.4
10°	9103.8	8858.7	8333.7	7793.4	7252.9	6733.8	6245.4	5900.0	5593.1	5421.3	5299.8
12.5°	8810.5	8474.6	7747.0	7015.5	6274.4	5535.2	4803.8	4228.6	3748.1	3495.2	3365.9
15°	8524.8	8119.5	7189.2	6260.9	5309.4	4303.9	3342.8	2690.5	2292.8	2134.6	2080.6
17.5°	8266.2	7747.0	6629.5	5500.5	4313.6	3097.6	2246.5	1887.5	1735.0	1683.0	1665.6
20°	7986.3	7370.7	6048.6	4705.4	3275.2	2165.5	1754.4	1596.1	1534.3	1518.9	1511.2
22.5°	7716.1	7000.1	5492.7	3854.2	2352.7	1671.4	1507.3	1441.7	1432.0	1445.5	1445.5
25°	7486.5	6668.1	4892.6	2964.5	1727.4	1407.0	1349.1	1333.6	1370.3	1420.5	1430.1
27.5°	7314.7	6396.0	4253.7	2188.6	1376.1	1223.7	1221.7	1246.8	1337.5	1434.0	1453.3
30°	7197.0	6137.4	3570.5	1578.7	1154.1	1077.0	1107.9	1161.9	1295.1	1432.0	1468.8
32.5°	7137.1	5946.3	2858.3	1221.7	988.2	945.7	997.8	1063.5	1194.7	1322.1	1370.3
35°	7183.5	5805.5	2186.7	1019.1	872.4	839.5	893.5	957.3	1034.5	1088.5	1125.1
37.5°	7357.2	5749.5	1650.1	912.9	793.2	762.3	804.9	841.5	872.4	887.8	905.2
40°	7731.6	5809.3	1322.1	858.9	748.8	710.2	727.6	741.1	760.5	775.9	783.6
42.5°	8283.5	5988.8	1185.0	837.6	725.7	669.7	665.8	671.7	696.7	725.7	731.5
45°	9055.6	6305.3	1175.4	851.1	714.1	636.9	619.5	627.3	665.8	710.2	718.0
47.5°	10041.8	6787.8	1252.6	891.7	723.7	619.5	590.5	600.3	648.4	708.3	718.0
50°	11236.4	7461.4	1381.9	951.4	766.2	623.4	580.9	586.8	636.9	702.6	712.2
52.5°	12647.3	8416.7	1522.8	1009.3	810.6	648.4	588.6	575.1	621.4	679.3	690.9
55°	14216.4	9642.2	1667.5	1061.5	833.8	679.3	604.1	559.7	592.5	640.8	650.4
57.5°	16142.5	11356.1	1918.4	1111.6	849.2	700.6	619.5	544.2	555.9	590.5	598.3
60°	18749.9	13780.2	2360.4	1194.7	883.9	708.3	617.6	530.7	519.1	538.5	542.4
62.5°	21874.6	16412.7	2729.0	1298.8	941.8	714.1	606.0	521.1	488.3	488.3	492.1
65°	23729.3	17117.1	2524.4	1385.7	990.1	708.3	592.5	511.5	465.1	443.9	445.8
67.5°	22156.4	15053.9	2163.5	1403.1	988.2	681.3	571.3	494.1	442.0	409.2	407.2
69°	20185.8	12988.9	2001.4	1356.7	941.8	646.5	544.2	474.8	424.6	389.8	387.9
70°	18597.5	11728.5	1895.2	1306.6	891.7	621.4	523.0	457.4	411.1	378.3	374.4
72.5°	13521.6	7685.2	1619.2	1123.3	735.3	521.1	451.6	401.4	366.7	347.4	343.5
75°	6756.9	3665.0	1314.3	910.9	563.5	416.9	370.5	335.8	318.4	314.6	312.6
77.5°	2219.5	1679.1	939.9	679.3	418.8	326.2	299.1	274.0	270.2	281.8	277.9
80°	1219.8	976.6	596.4	449.7	285.6	239.4	235.5	222.0	227.7	247.0	243.2
82.5°	621.4	507.6	368.7	270.2	193.0	171.8	187.2	179.5	187.2	204.6	202.6
85°	306.9	277.9	233.5	164.1	127.4	110.0	133.2	138.9	142.8	156.3	156.3
87.5°	177.6	164.1	123.5	77.2	63.7	57.9	77.2	75.3	88.8	96.5	94.5
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)