

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: P191957

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191957
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-09-LED-E1-SL3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA 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: 35064 lumens
Efficiency: N/A
Efficacy: 120.9 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): 290
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

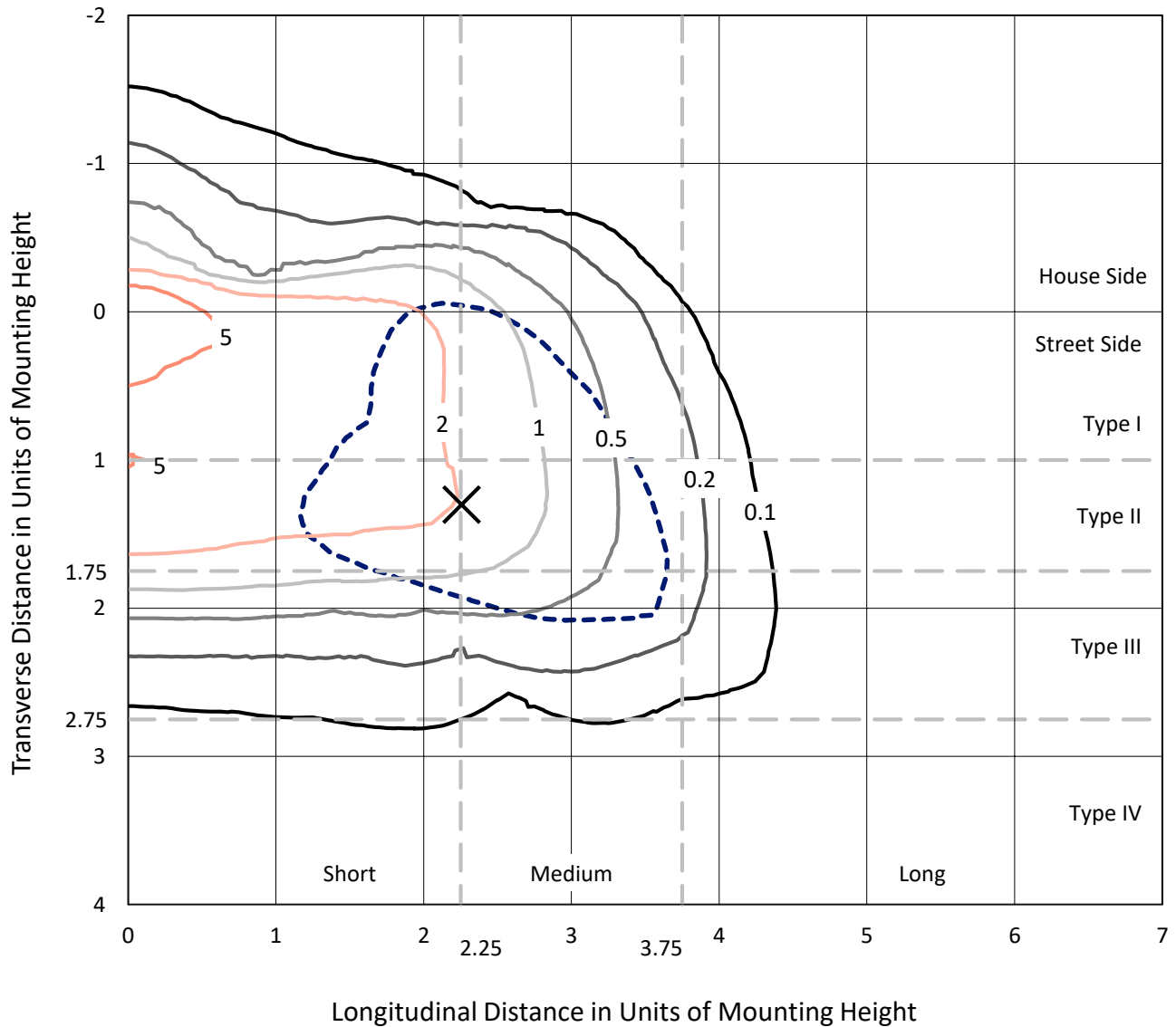


REPORT NUMBER: P191957

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-600

Iso-Footcandle Lines of Horizontal Illumination

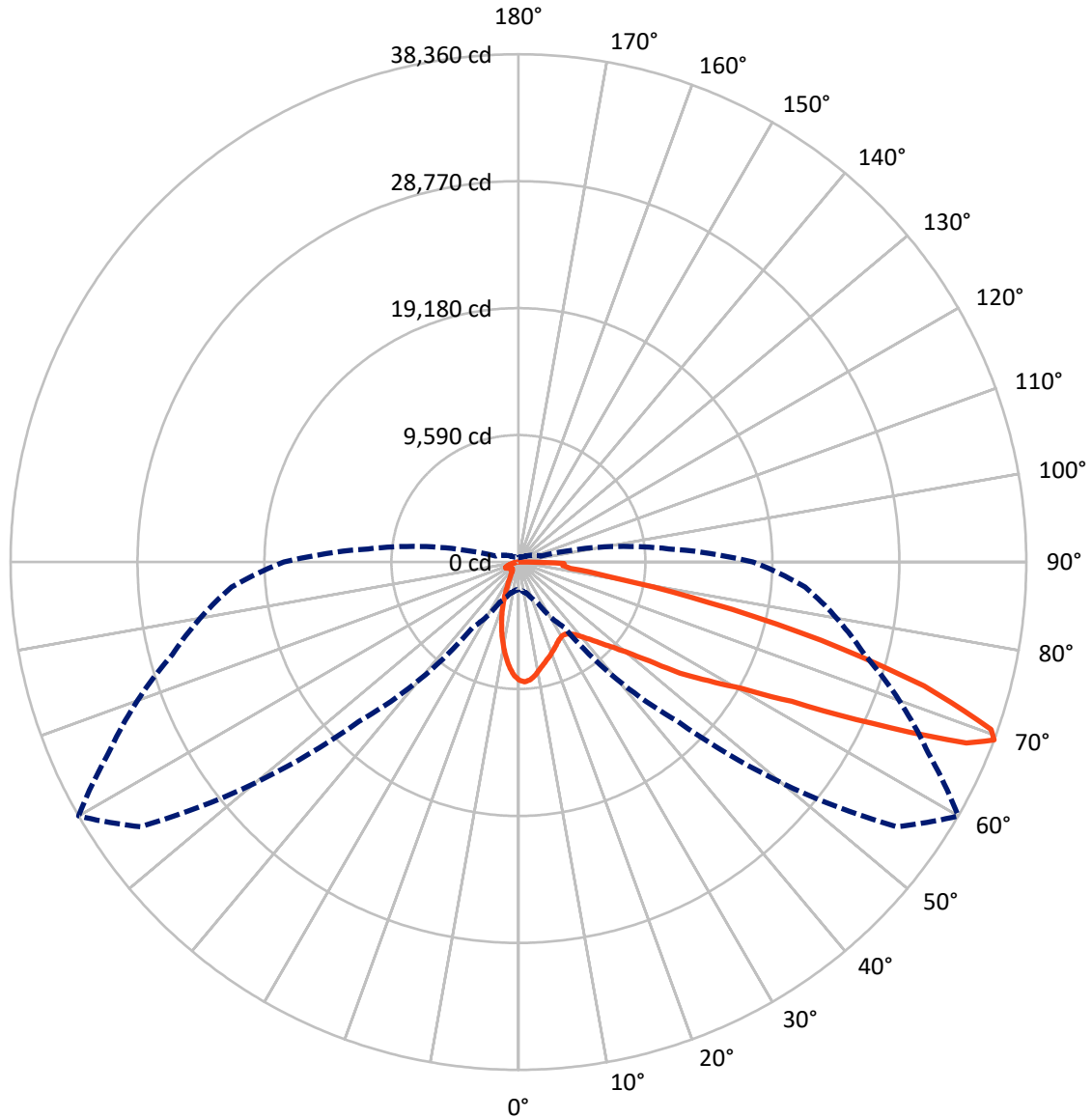
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191957
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191957

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4988.5	0.0	4988.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30075.5	0.0	30075.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	35064.0	0.0	35064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.5	2.2
10°-20°	1609.6	4.6
20°-30°	2050.9	5.8
30°-40°	2819.5	8.0
40°-50°	4574.9	13.0
50°-60°	7336.9	20.9
60°-70°	9764.8	27.8
70°-80°	5272.3	15.0
80°-90°	879.7	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°	35064.0	100.0
0°-180°	35064.0	100.0

Coefficient of Utilization



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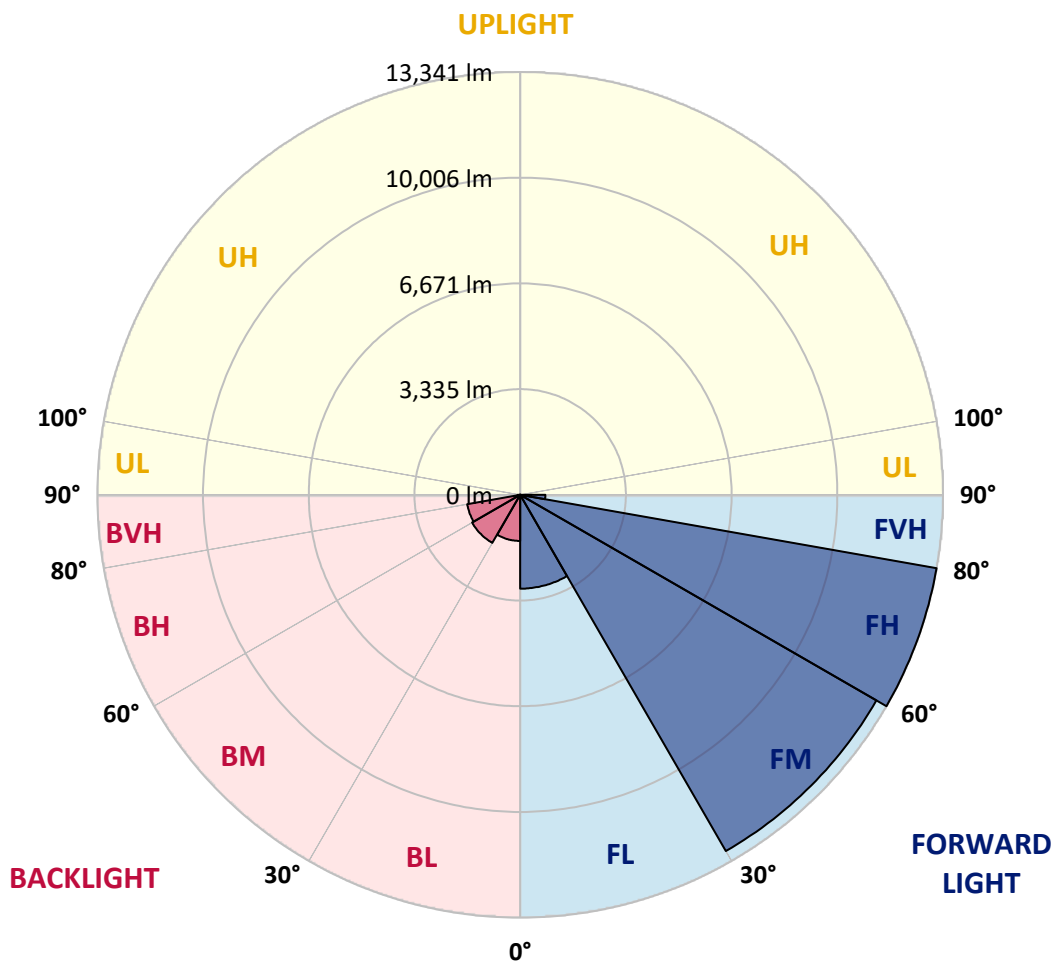
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2960.7	8.4			
FM (30°-60°)	12978.7	37.0			
FH (60°-80°)	13341.2	38.0			G5
FVH (80°-90°)	795.0	2.3			G5
BL (0°-30°)	1455.3	4.2	B3/2500		
BM (30°-60°)	1752.6	5.0	B2/2500		
BH (60°-80°)	1695.9	4.8	B3/2500		G3/2500
BVH (80°-90°)	84.7	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





REPORT NUMBER: P191957

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8
2.5°	9117.8	9138.1	9129.6	9124.5	9139.8	9116.1	9067.0	9051.7	9028.0	8972.1	8877.3
5°	8775.6	8836.6	8833.2	8878.9	8955.2	8975.5	8953.5	8956.9	8912.8	8843.4	8685.8
7.5°	8184.5	8209.9	8223.4	8323.4	8462.3	8574.1	8668.9	8699.4	8679.1	8619.8	8416.5
10°	7574.7	7595.0	7627.2	7744.1	7920.2	8074.4	8253.9	8357.3	8401.3	8391.1	8164.2
12.5°	7051.3	7071.7	7114.0	7246.1	7456.1	7645.9	7906.7	8035.4	8140.4	8203.1	7959.2
15°	6582.1	6626.2	6666.8	6819.3	7054.7	7303.7	7598.4	7761.0	7923.6	8064.2	7778.0
17.5°	6216.3	6260.3	6284.0	6422.9	6673.6	6978.5	7324.0	7515.4	7718.7	7949.0	7598.4
20°	6004.6	6024.9	6014.7	6092.6	6317.9	6641.4	7051.3	7273.2	7518.8	7840.6	7418.9
22.5°	5945.3	5947.0	5909.7	5901.2	6046.9	6319.6	6760.0	7029.3	7330.8	7769.5	7264.7
25°	6089.2	6084.2	5982.5	5899.5	5914.8	6074.0	6478.8	6792.2	7173.3	7754.3	7146.2
27.5°	6409.4	6424.6	6273.9	6118.0	5963.9	5958.8	6265.4	6595.7	7044.5	7823.7	7095.4
30°	6858.2	6883.6	6722.7	6524.6	6234.9	5996.1	6182.4	6478.8	6964.9	7967.7	7086.9
32.5°	7349.4	7376.5	7254.6	7046.2	6666.8	6226.4	6240.0	6489.0	6961.6	8169.2	7144.5
35°	7872.8	7903.3	7840.6	7664.5	7242.7	6651.6	6460.2	6653.3	7071.7	8477.5	7298.6
37.5°	8457.2	8504.6	8521.6	8353.9	7903.3	7212.2	6821.0	6964.9	7320.6	8906.0	7581.5
40°	9299.0	9365.1	9360.0	9119.5	8660.4	7969.4	7378.2	7415.5	7708.5	9478.6	8033.7
42.5°	10911.5	10925.1	10503.3	9979.9	9493.8	8765.5	8035.4	8004.9	8243.8	10203.5	8699.4
45°	12962.7	12906.8	11968.5	10957.2	10364.4	9680.1	8890.8	8741.7	8923.0	11087.7	9532.8
47.5°	14665.0	14536.3	13350.6	11954.9	11285.8	10674.4	9895.2	9634.4	9734.3	12090.4	10610.0
50°	15256.1	15159.6	14177.2	12784.9	12158.2	11887.1	11131.7	10762.5	10789.6	13286.2	11871.9
52.5°	15129.1	15115.5	14460.0	13332.0	12974.6	13160.9	12883.1	12383.4	12119.2	14614.2	13233.7
55°	14829.3	14858.1	14621.0	13968.8	13907.9	14390.6	15171.4	14802.2	13980.7	15954.0	14641.3
57.5°	13787.6	13862.1	14383.8	14770.0	15410.3	16128.4	17014.3	16909.3	15984.5	17402.2	16314.8
60°	11108.0	11280.8	12679.9	14614.2	16956.7	19202.7	19599.1	19355.1	18050.9	19199.3	18525.2
62.5°	7783.0	7962.6	9625.9	12652.7	16702.6	22675.0	24219.8	23167.9	21018.5	21846.7	21386.0
65°	4166.8	4253.2	5523.5	8779.0	14101.0	23391.5	30973.0	29372.3	25717.1	25110.7	23833.6
67.5°	2298.5	2345.9	2832.0	4432.7	9031.4	20598.4	35275.3	36484.6	31589.5	27283.9	23388.1
69°	2078.3	2122.3	2440.8	3357.1	6043.5	17031.2	34855.2	38359.7	34164.1	27068.8	21741.7
70°	2032.6	2073.2	2359.5	3094.6	4891.7	14038.3	33447.6	37880.3	34777.3	26298.1	20305.4
72.5°	1829.3	1873.4	2151.1	2779.5	4180.3	6998.8	26494.6	32028.2	31574.3	22802.0	15401.8
75°	1705.7	1746.3	2217.2	2722.0	4002.5	4429.3	17466.6	23604.9	23210.3	15950.6	8304.7
77.5°	730.0	726.6	1028.1	2303.6	4061.8	4288.7	9385.4	14746.3	13453.9	6817.6	2384.9
80°	487.8	479.3	487.8	677.5	3724.7	4312.4	4917.1	7484.9	5653.9	1737.8	1175.5
82.5°	420.1	413.3	428.5	413.3	1309.3	4922.2	4180.3	3980.4	2688.1	987.5	582.7
85°	282.9	271.0	369.3	370.9	618.2	4373.4	4708.8	3362.2	2174.9	586.1	287.9
87.5°	135.5	132.1	215.1	262.5	362.5	1776.8	5283.0	3445.2	2193.5	299.8	137.2
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: P191957

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8	8934.8
2.5°	8848.5	8779.0	8711.3	8630.0	8545.3	8450.4	8403.0	8355.6	8343.7	8330.2	8282.7
5°	8604.5	8506.3	8336.9	8150.6	7954.1	7762.7	7617.1	7525.6	7456.1	7420.6	7357.9
7.5°	8289.5	8145.5	7849.1	7527.3	7197.0	6895.5	6634.6	6470.3	6314.5	6241.7	6158.7
10°	7989.7	7774.6	7313.9	6839.6	6365.3	5909.7	5481.2	5178.0	4908.7	4757.9	4651.2
12.5°	7732.2	7437.5	6798.9	6157.0	5506.6	4857.8	4215.9	3711.1	3289.4	3067.5	2954.0
15°	7481.6	7125.9	6309.4	5494.7	4659.7	3777.2	2933.7	2361.2	2012.2	1873.4	1825.9
17.5°	7254.6	6798.9	5818.2	4827.4	3785.7	2718.6	1971.6	1656.5	1522.7	1477.0	1461.8
20°	7009.0	6468.7	5308.4	4129.5	2874.4	1900.5	1539.7	1400.8	1346.6	1333.0	1326.3
22.5°	6771.8	6143.4	4820.6	3382.5	2064.8	1466.8	1322.9	1265.3	1256.8	1268.7	1268.7
25°	6570.3	5852.1	4293.8	2601.7	1516.0	1234.8	1184.0	1170.4	1202.6	1246.6	1255.1
27.5°	6419.5	5613.3	3733.2	1920.8	1207.7	1073.9	1072.2	1094.2	1173.8	1258.5	1275.4
30°	6316.2	5386.3	3133.5	1385.5	1012.9	945.1	972.2	1019.7	1136.5	1256.8	1289.0
32.5°	6263.7	5218.6	2508.5	1072.2	867.2	830.0	875.7	933.3	1048.5	1160.3	1202.6
35°	6304.4	5095.0	1919.1	894.3	765.6	736.8	784.2	840.1	907.9	955.3	987.5
37.5°	6456.8	5045.9	1448.2	801.2	696.2	669.1	706.3	738.5	765.6	779.2	794.4
40°	6785.4	5098.4	1160.3	753.7	657.2	623.3	638.6	650.4	667.4	680.9	687.7
42.5°	7269.8	5255.9	1040.0	735.1	636.9	587.8	584.4	589.4	611.5	636.9	642.0
45°	7947.3	5533.7	1031.5	747.0	626.7	559.0	543.7	550.5	584.4	623.3	630.1
47.5°	8812.9	5957.1	1099.3	782.5	635.2	543.7	518.3	526.8	569.1	621.6	630.1
50°	9861.4	6548.3	1212.8	835.0	672.4	547.1	509.8	514.9	559.0	616.5	625.0
52.5°	11099.5	7386.7	1336.4	885.9	711.4	569.1	516.6	504.8	545.4	596.2	606.4
55°	12476.6	8462.3	1463.5	931.6	731.7	596.2	530.2	491.2	520.0	562.3	570.8
57.5°	14167.0	9966.4	1683.6	975.6	745.3	614.9	543.7	477.7	487.8	518.3	525.1
60°	16455.3	12093.8	2071.5	1048.5	775.8	621.6	542.0	465.8	455.6	472.6	476.0
62.5°	19197.6	14404.1	2395.0	1139.9	826.6	626.7	531.9	457.3	428.5	428.5	431.9
65°	20825.4	15022.4	2215.5	1216.2	868.9	621.6	520.0	448.9	408.2	389.6	391.3
67.5°	19444.9	13211.7	1898.8	1231.4	867.2	597.9	501.4	433.6	387.9	359.1	357.4
69°	17715.5	11399.3	1756.5	1190.7	826.6	567.4	477.7	416.7	372.6	342.1	340.5
70°	16321.5	10293.3	1663.3	1146.7	782.5	545.4	459.0	401.4	360.8	332.0	328.6
72.5°	11866.8	6744.7	1421.1	985.8	645.3	457.3	396.4	352.3	321.8	304.9	301.5
75°	5930.0	3216.5	1153.5	799.5	494.6	365.9	325.2	294.7	279.5	276.1	274.4
77.5°	1947.9	1473.6	824.9	596.2	367.6	286.3	262.5	240.5	237.1	247.3	243.9
80°	1070.5	857.1	523.4	394.7	250.7	210.0	206.6	194.8	199.9	216.8	213.4
82.5°	545.4	445.5	323.5	237.1	169.4	150.7	164.3	157.5	164.3	179.5	177.8
85°	269.3	243.9	205.0	144.0	111.8	96.5	116.9	122.0	125.3	137.2	137.2
87.5°	155.8	144.0	108.4	67.8	55.9	50.8	67.8	66.1	77.9	84.7	83.0
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)