

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: P269716

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269716
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-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 41359.6 lumens
Efficiency: N/A
Efficacy: 98.7 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

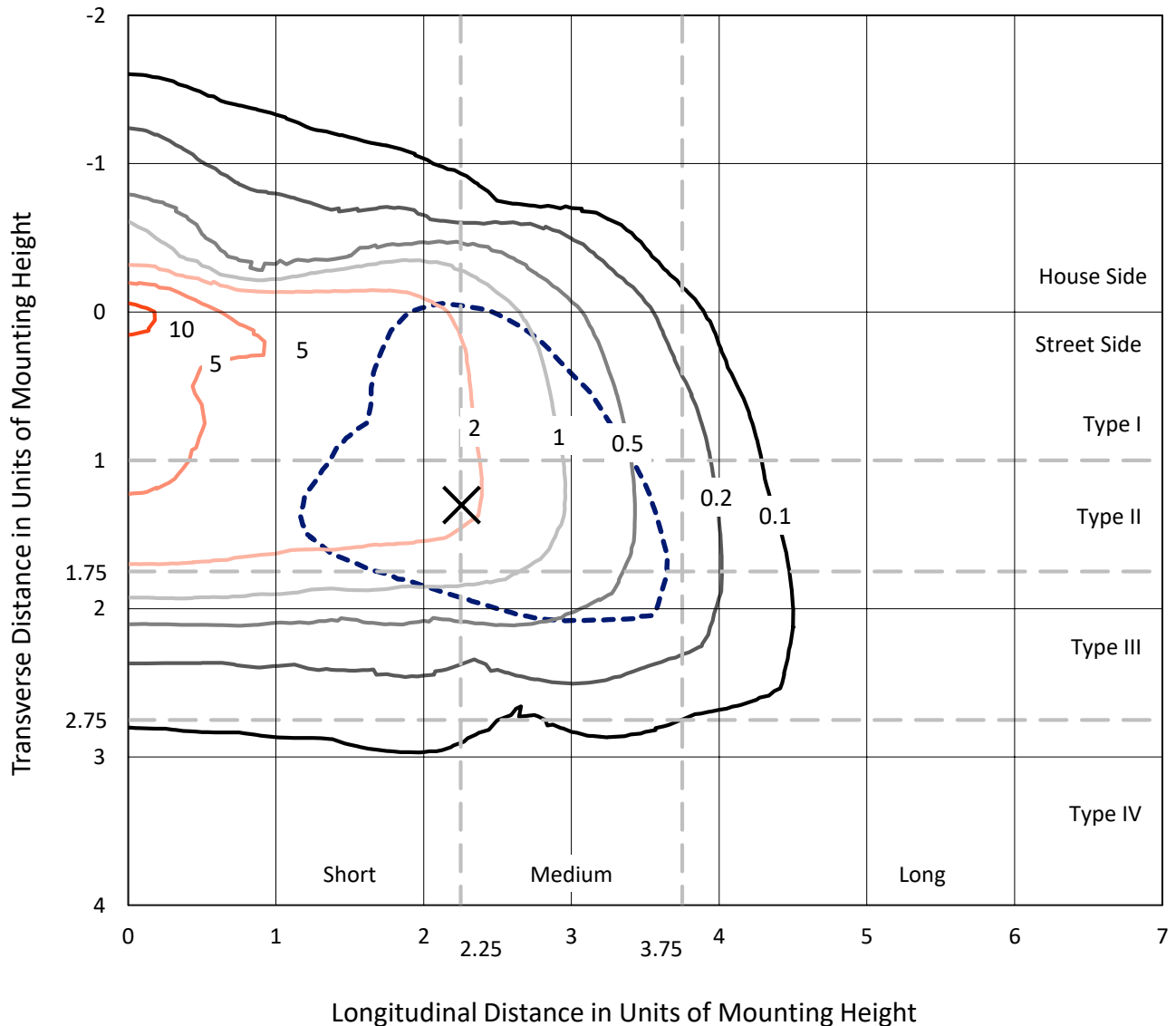


REPORT NUMBER: P269716

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-800

Iso-Footcandle Lines of Horizontal Illumination

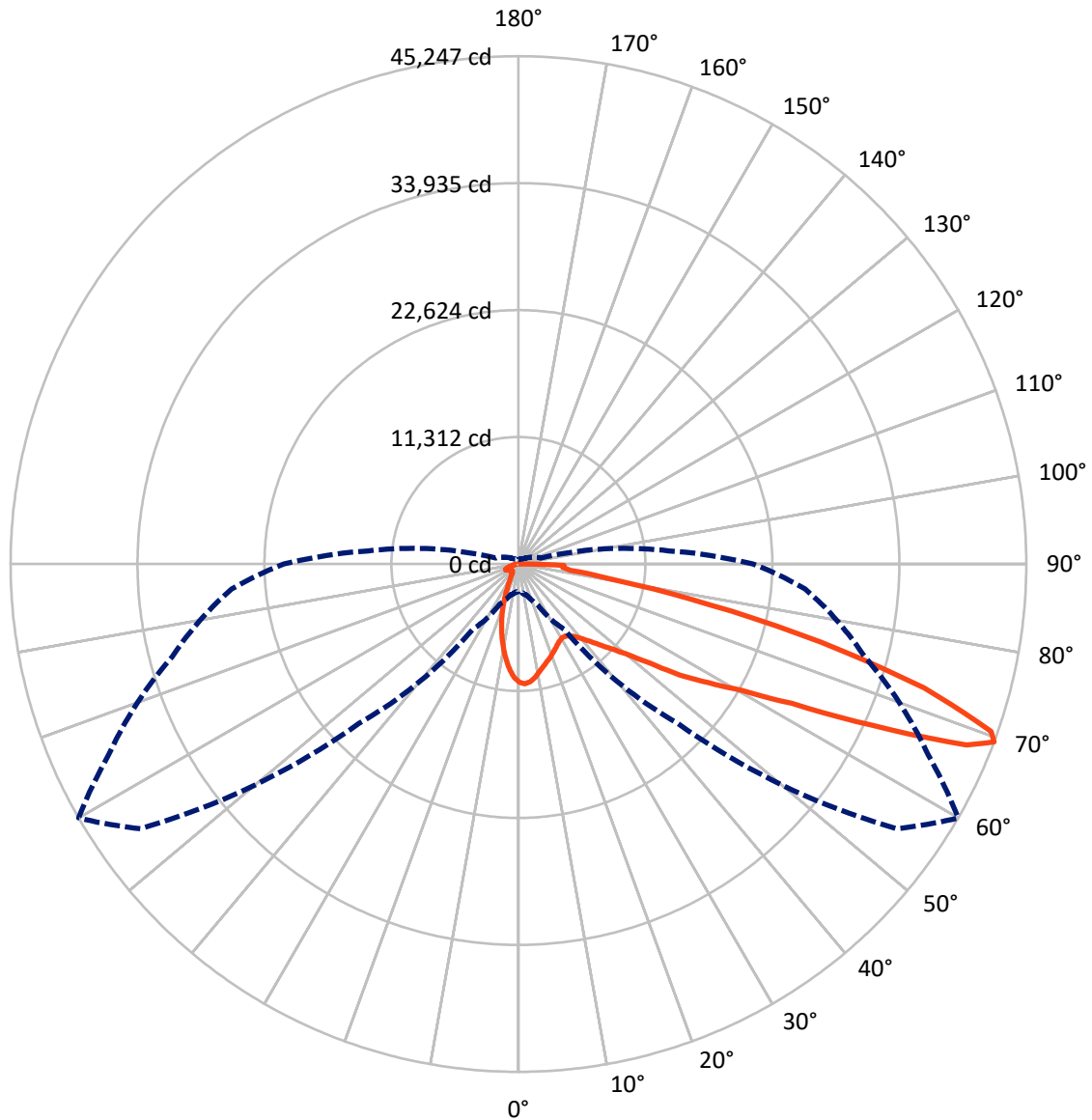
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269716
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269716

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5884.2	0.0	5884.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	35475.4	0.0	35475.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	41359.6	0.0	41359.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.1	2.2
10°-20°	1898.6	4.6
20°-30°	2419.1	5.8
30°-40°	3325.7	8.0
40°-50°	5396.3	13.0
50°-60°	8654.2	20.9
60°-70°	11518.1	27.8
70°-80°	6218.9	15.0
80°-90°	1037.7	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°	41359.6	100.0
0°-180°	41359.6	100.0



REPORT NUMBER: P269716

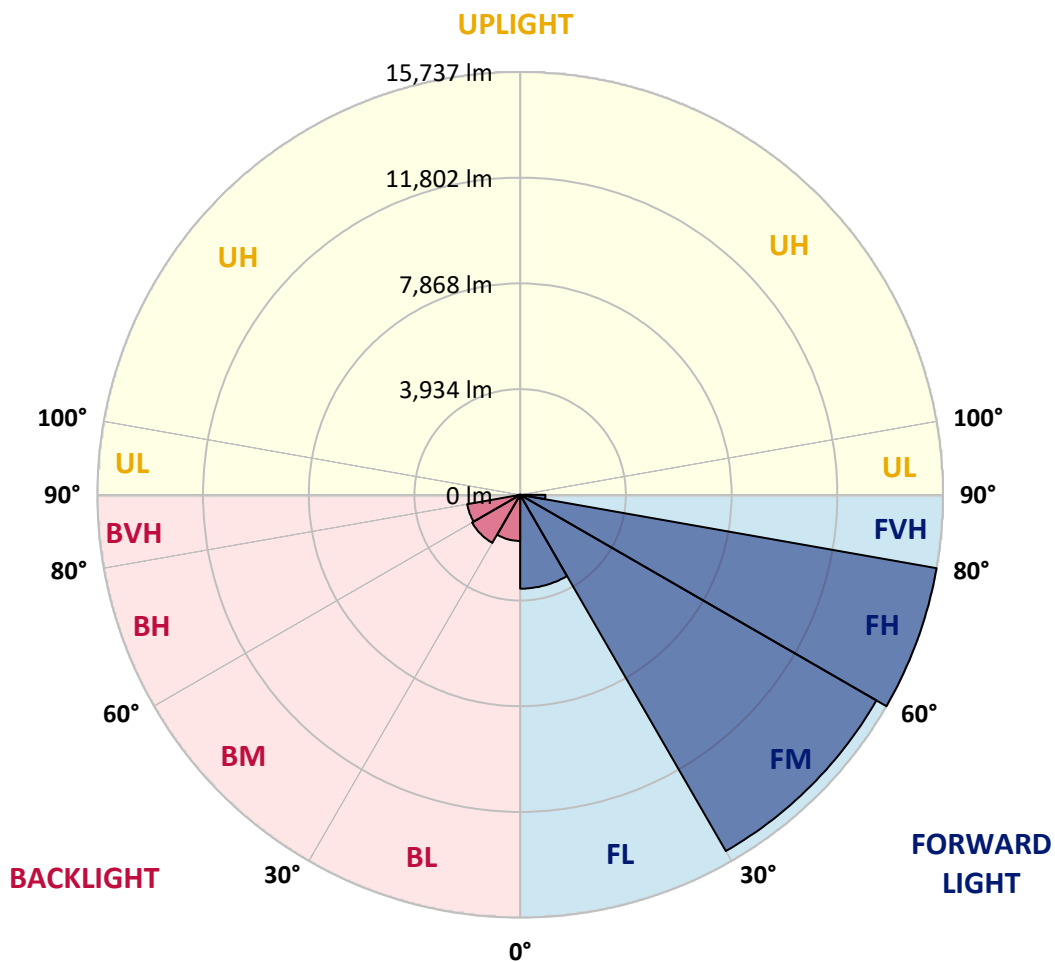
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3492.2	8.4			
FM (30°-60°)	15308.9	37.0			
FH (60°-80°)	15736.5	38.0			G5
FVH (80°-90°)	937.7	2.3			G5
BL (0°-30°)	1716.6	4.2	B3/2500		
BM (30°-60°)	2067.2	5.0	B2/2500		
BH (60°-80°)	2000.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	99.9	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





REPORT NUMBER: P269716

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0
2.5°	10754.9	10778.9	10768.8	10762.9	10780.7	10752.8	10695.0	10677.0	10649.0	10583.0	10471.2
5°	10351.3	10423.2	10419.3	10473.1	10563.0	10587.1	10561.1	10565.1	10513.0	10431.2	10245.3
7.5°	9653.9	9684.0	9700.0	9817.8	9981.6	10113.5	10225.3	10261.3	10237.4	10167.5	9927.7
10°	8934.7	8958.6	8996.6	9134.5	9342.4	9524.1	9735.9	9857.8	9909.7	9897.7	9630.0
12.5°	8317.3	8341.3	8391.2	8547.2	8794.9	9018.7	9326.4	9478.1	9602.1	9676.0	9388.2
15°	7764.0	7816.0	7863.9	8043.7	8321.4	8615.0	8962.7	9154.4	9346.2	9512.2	9174.5
17.5°	7332.3	7384.3	7412.4	7576.1	7871.8	8231.4	8639.0	8864.8	9104.5	9376.2	8962.7
20°	7082.6	7106.6	7094.6	7186.5	7452.2	7833.8	8317.3	8579.2	8868.7	9248.4	8750.8
22.5°	7012.7	7014.8	6970.8	6960.7	7132.6	7454.2	7973.7	8291.4	8647.1	9164.5	8569.1
25°	7182.6	7176.6	7056.6	6958.8	6976.7	7164.5	7642.2	8011.7	8461.2	9146.5	8429.2
27.5°	7560.1	7578.1	7400.2	7216.5	7034.6	7028.7	7390.4	7780.0	8309.4	9228.4	8369.2
30°	8089.5	8119.6	7929.8	7696.0	7354.3	7072.6	7292.4	7642.2	8215.4	9398.2	8359.3
32.5°	8669.1	8701.0	8557.2	8311.4	7863.9	7344.5	7360.4	7654.1	8211.4	9635.9	8427.3
35°	9286.4	9322.3	9248.4	9040.6	8543.2	7845.8	7620.1	7847.9	8341.3	9999.7	8609.0
37.5°	9975.7	10031.6	10051.6	9853.8	9322.3	8507.2	8045.7	8215.4	8635.0	10505.0	8942.6
40°	10968.7	11046.5	11040.6	10756.8	10215.3	9400.3	8703.0	8746.9	9092.6	11180.3	9476.2
42.5°	12870.6	12886.6	12389.2	11771.7	11198.5	10339.2	9478.1	9442.3	9724.0	12035.5	10261.3
45°	15290.1	15224.1	14117.4	12924.5	12225.4	11418.1	10487.2	10311.4	10525.1	13078.5	11244.4
47.5°	17298.0	17146.2	15747.6	14101.4	13312.3	12591.0	11671.9	11364.2	11482.0	14261.2	12514.9
50°	17995.3	17881.4	16722.7	15080.3	14341.1	14021.5	13130.3	12694.8	12726.7	15671.7	14003.5
52.5°	17845.5	17829.5	17056.3	15725.6	15304.2	15523.9	15196.2	14606.8	14295.2	17238.1	15609.8
55°	17491.8	17525.8	17246.1	16476.9	16404.9	16974.5	17895.5	17459.8	16490.8	18818.5	17270.0
57.5°	16263.2	16350.9	16966.4	17421.9	18177.2	19024.2	20069.2	19945.2	18854.4	20526.7	19244.0
60°	13102.4	13306.1	14956.5	17238.1	20001.2	22650.6	23118.1	22830.3	21291.8	22646.5	21851.4
62.5°	9180.5	9392.3	11354.1	14924.5	19701.5	26746.2	28568.3	27327.7	24792.2	25769.3	25225.8
65°	4914.8	5016.8	6515.2	10355.2	16632.7	27591.4	36534.1	34646.0	30334.5	29619.3	28112.8
67.5°	2711.2	2767.0	3340.5	5228.6	10652.9	24296.7	41608.9	43035.3	37261.3	32182.6	27587.4
69°	2451.5	2503.3	2879.0	3959.9	7128.6	20089.2	41113.4	45247.1	40298.1	31928.8	25645.4
70°	2397.4	2445.5	2783.0	3650.3	5770.1	16558.7	39453.0	44681.7	41021.5	31019.8	23951.1
72.5°	2157.8	2209.7	2537.4	3278.6	4930.8	8255.5	31251.6	37778.8	37243.4	26896.2	18167.1
75°	2011.9	2059.9	2615.2	3210.6	4721.1	5224.6	20602.5	27843.1	27377.6	18814.6	9795.8
77.5°	861.1	857.2	1212.7	2717.2	4791.0	5058.7	11070.5	17393.9	15869.5	8041.6	2813.1
80°	575.5	565.5	575.5	799.1	4393.4	5086.7	5799.9	8828.8	6669.0	2049.8	1386.5
82.5°	495.4	487.5	505.4	487.5	1544.4	5805.9	4930.8	4695.1	3170.7	1164.8	687.4
85°	333.6	319.6	435.6	437.6	729.2	5158.6	5554.2	3965.8	2565.3	691.2	339.6
87.5°	159.8	155.9	253.7	309.6	427.6	2095.8	6231.5	4063.8	2587.3	353.7	161.9
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: P269716

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0	10539.0
2.5°	10437.1	10355.2	10275.4	10179.5	10079.5	9967.7	9911.7	9855.8	9841.8	9825.8	9769.8
5°	10149.5	10033.6	9833.7	9614.0	9382.3	9156.6	8984.7	8876.8	8794.9	8752.9	8679.0
7.5°	9777.8	9608.0	9258.4	8878.8	8489.3	8133.6	7825.9	7632.1	7448.2	7362.4	7264.5
10°	9424.2	9170.4	8627.1	8067.6	7508.3	6970.8	6465.3	6107.7	5789.9	5612.3	5486.3
12.5°	9120.5	8772.8	8019.7	7262.4	6495.3	5730.1	4972.8	4377.5	3880.0	3618.3	3484.3
15°	8824.8	8405.4	7442.3	6481.4	5496.3	4455.4	3460.5	2785.1	2373.5	2209.7	2153.7
17.5°	8557.2	8019.7	6863.0	5694.0	4465.4	3206.7	2325.6	1954.0	1796.2	1742.3	1724.1
20°	8267.5	7630.1	6261.5	4870.9	3390.6	2241.7	1816.2	1652.3	1588.4	1572.4	1564.4
22.5°	7987.6	7246.4	5686.1	3989.8	2435.5	1730.1	1560.4	1492.4	1482.5	1496.4	1496.4
25°	7749.9	6902.8	5064.7	3068.8	1788.2	1456.5	1396.5	1380.5	1418.6	1470.4	1480.4
27.5°	7572.2	6621.1	4403.4	2265.6	1424.5	1266.7	1264.6	1290.7	1384.6	1484.4	1504.4
30°	7450.3	6353.4	3696.2	1634.2	1194.7	1114.8	1146.7	1202.7	1340.6	1482.5	1520.4
32.5°	7388.3	6155.6	2958.9	1264.6	1022.9	979.1	1033.0	1100.9	1236.7	1368.6	1418.6
35°	7436.3	6009.8	2263.6	1054.9	903.1	869.1	925.1	991.0	1070.9	1126.8	1164.8
37.5°	7616.1	5951.8	1708.2	944.9	821.1	789.3	833.2	871.0	903.1	919.1	937.0
40°	8003.7	6013.8	1368.6	889.1	775.1	735.3	753.1	767.2	787.2	803.2	811.2
42.5°	8575.1	6199.6	1226.7	867.1	751.3	693.3	689.3	695.3	721.2	751.3	757.2
45°	9374.3	6527.3	1216.8	881.1	739.2	659.4	641.3	649.4	689.3	735.3	743.3
47.5°	10395.1	7026.7	1296.7	923.1	749.2	641.3	611.3	621.4	671.4	733.2	743.3
50°	11632.0	7723.9	1430.6	985.0	793.2	645.3	601.3	607.3	659.4	727.3	737.1
52.5°	13092.3	8713.0	1576.3	1044.9	839.1	671.4	609.4	595.3	643.4	703.3	715.3
55°	14716.8	9981.6	1726.3	1098.8	863.1	703.3	625.4	579.3	613.4	663.3	673.3
57.5°	16710.7	11755.8	1986.0	1150.8	879.1	725.2	641.3	563.3	575.5	611.3	619.3
60°	19409.9	14265.2	2443.5	1236.7	915.1	733.2	639.4	549.5	537.5	557.4	561.4
62.5°	22644.6	16990.4	2825.1	1344.7	975.0	739.2	627.3	539.4	505.4	505.4	509.5
65°	24564.5	17719.5	2613.3	1434.6	1025.0	733.2	613.4	529.5	481.5	459.6	461.5
67.5°	22936.2	15583.8	2239.7	1452.5	1022.9	705.3	591.4	511.5	457.5	423.6	421.6
69°	20896.4	13446.0	2071.9	1404.5	975.0	669.2	563.3	491.6	439.5	403.6	401.6
70°	19252.0	12141.4	1962.0	1352.6	923.1	643.4	541.5	473.4	425.5	391.7	387.6
72.5°	13997.5	7955.7	1676.2	1162.8	761.3	539.4	467.5	415.6	379.7	359.6	355.5
75°	6994.7	3794.0	1360.7	943.0	583.4	431.5	383.5	347.6	329.7	325.6	323.7
77.5°	2297.7	1738.2	973.0	703.3	433.5	337.7	309.6	283.8	279.7	291.7	287.6
80°	1262.7	1011.0	617.3	465.5	295.7	247.8	243.7	229.7	235.7	255.7	251.7
82.5°	643.4	525.5	381.6	279.7	199.9	177.9	193.9	185.8	193.9	211.8	209.8
85°	317.7	287.6	241.7	169.8	132.0	113.8	137.9	143.9	147.9	161.9	161.9
87.5°	183.9	169.8	127.9	79.9	65.9	59.9	79.9	78.0	91.8	99.9	97.8
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)