

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: P269393

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269393
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-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 30933.3 lumens
Efficiency: N/A
Efficacy: 92.9 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 - G4

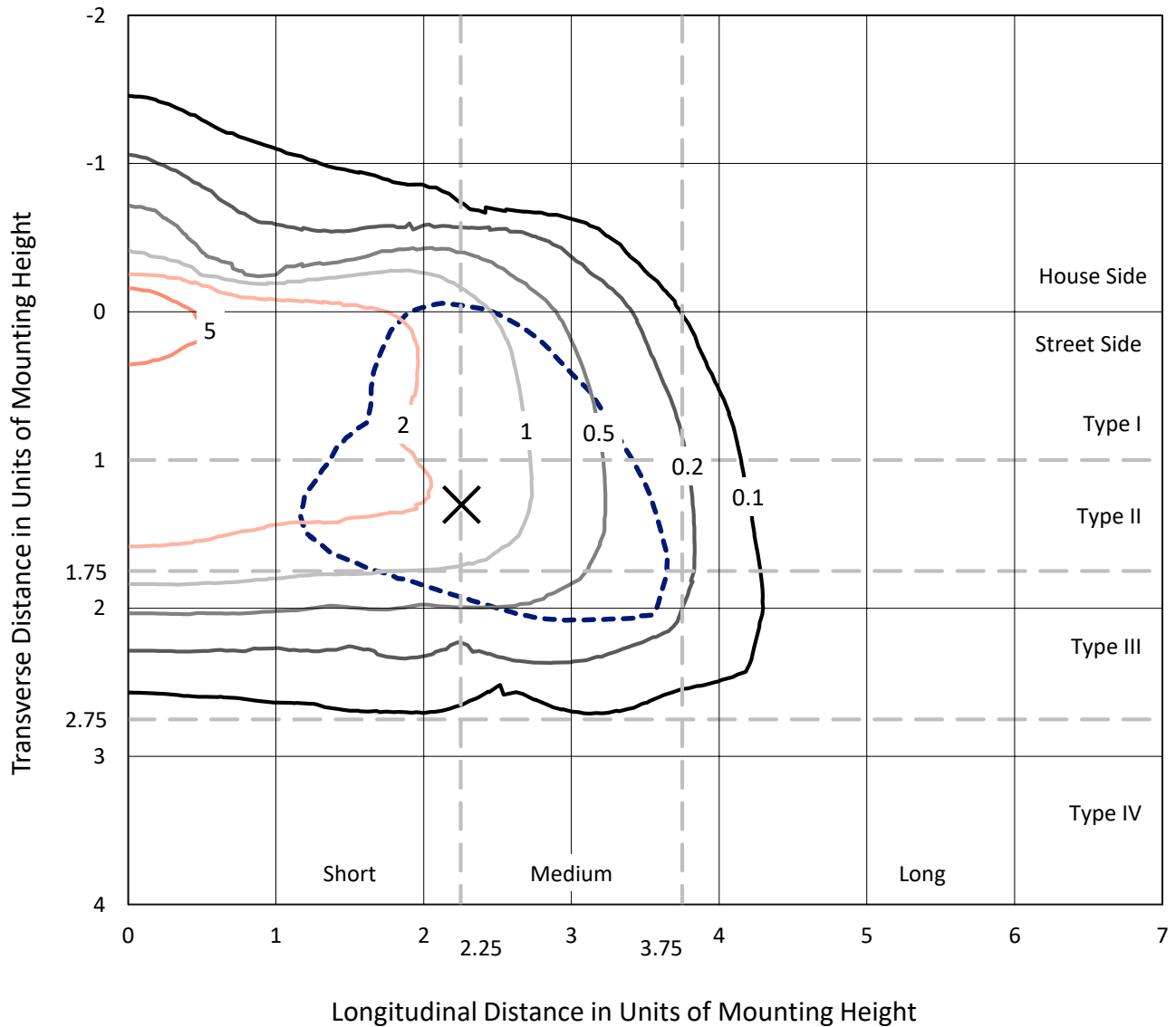
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269393
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027

Iso-Footcandle Lines of Horizontal Illumination

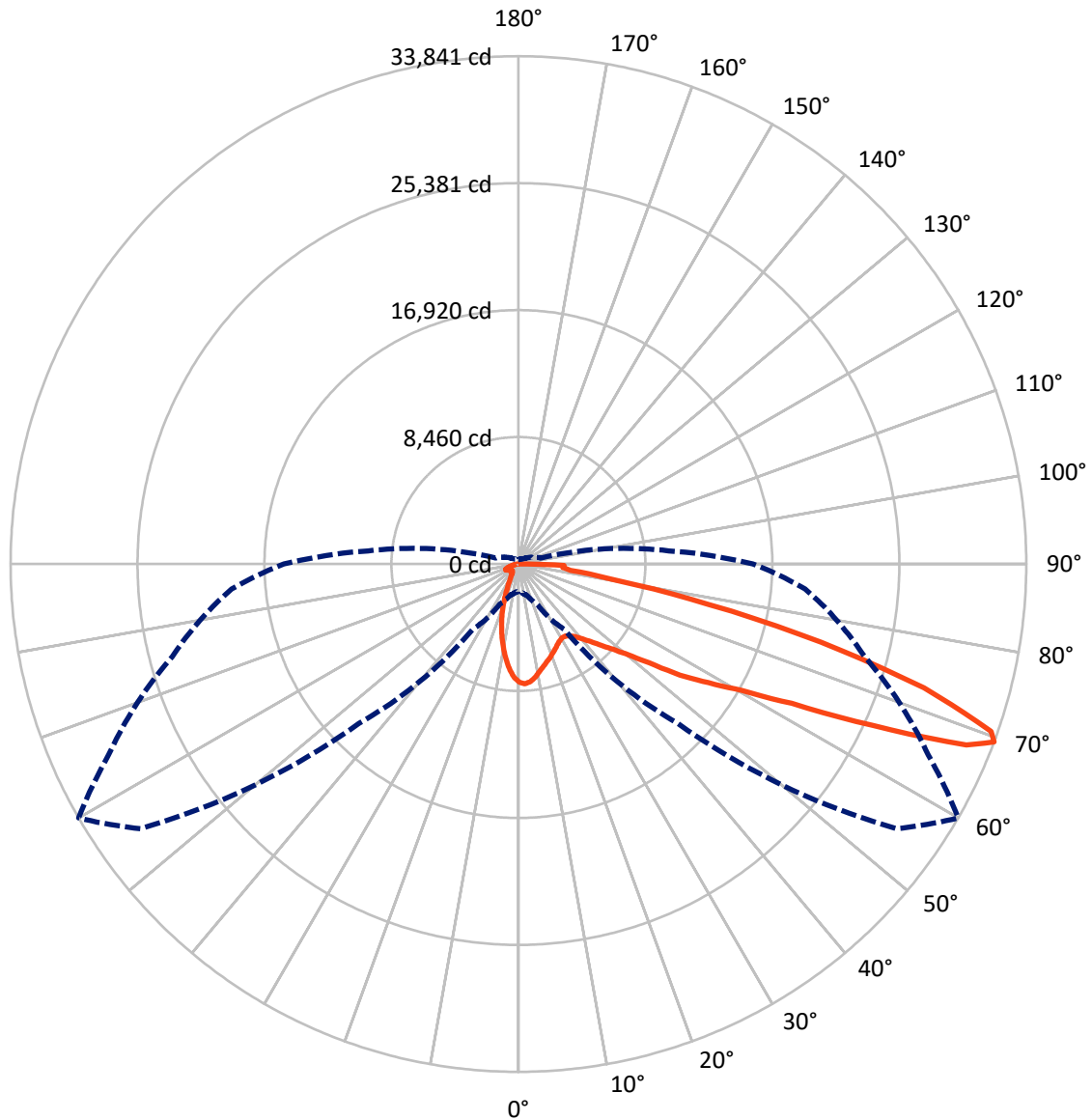
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269393
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269393

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4400.8	0.0	4400.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26532.5	0.0	26532.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	30933.3	0.0	30933.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.5	2.2
10°-20°	1420.0	4.6
20°-30°	1809.3	5.8
30°-40°	2487.3	8.0
40°-50°	4035.9	13.0
50°-60°	6472.6	20.9
60°-70°	8614.5	27.8
70°-80°	4651.2	15.0
80°-90°	776.1	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°	30933.3	100.0
0°-180°	30933.3	100.0



REPORT NUMBER: P269393

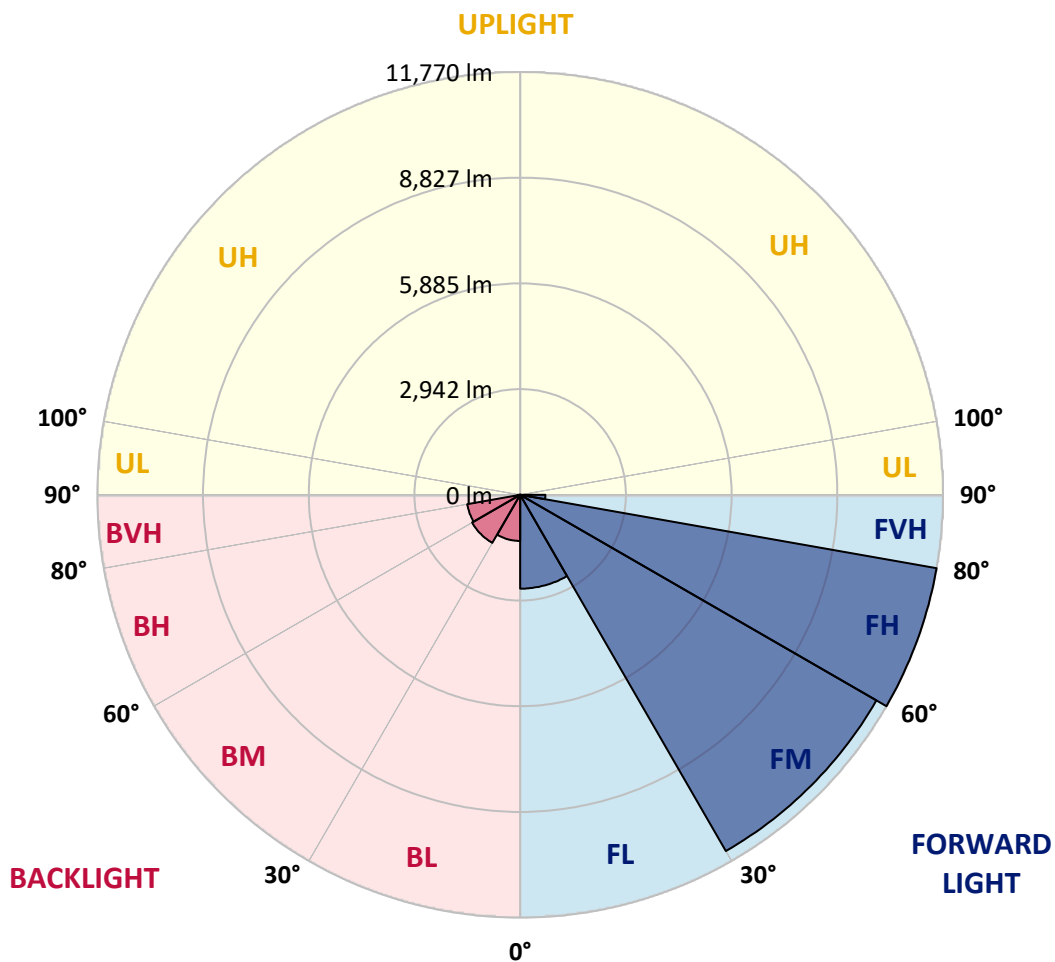
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2611.9	8.4			
FM	(30°-60°)	11449.7	37.0			
FH	(60°-80°)	11769.5	38.0			G4/12000
FVH	(80°-90°)	701.3	2.3			G4/750
BL	(0°-30°)	1283.9	4.2	B3/2500		
BM	(30°-60°)	1546.1	5.0	B2/2500		
BH	(60°-80°)	1496.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	74.7	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-G4

Type III Medium





REPORT NUMBER: P269393

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3
2.5°	8043.7	8061.6	8054.2	8049.6	8063.0	8042.2	7998.9	7985.5	7964.5	7915.1	7831.5
5°	7741.9	7795.6	7792.6	7833.0	7900.2	7918.1	7898.7	7901.8	7862.9	7801.6	7662.6
7.5°	7220.3	7242.8	7254.7	7342.8	7465.4	7564.0	7647.7	7674.6	7656.7	7604.3	7425.0
10°	6682.4	6700.3	6728.8	6831.8	6987.2	7123.2	7281.7	7372.7	7411.6	7402.7	7202.4
12.5°	6220.7	6238.5	6276.0	6392.5	6577.7	6745.2	6975.2	7088.9	7181.5	7236.7	7021.6
15°	5806.7	5845.6	5881.5	6015.9	6223.6	6443.4	6703.3	6846.7	6990.3	7114.2	6861.8
17.5°	5484.1	5522.8	5543.8	5666.2	5887.4	6156.4	6461.1	6630.1	6809.4	7012.6	6703.3
20°	5297.1	5315.1	5306.2	5374.9	5573.7	5859.0	6220.7	6416.5	6633.1	6916.9	6545.0
22.5°	5244.9	5246.5	5213.6	5206.0	5334.6	5575.2	5963.7	6201.2	6467.2	6854.2	6409.0
25°	5372.0	5367.5	5277.8	5204.6	5218.1	5358.5	5715.6	5992.1	6328.2	6840.9	6304.3
27.5°	5654.3	5667.8	5534.7	5397.2	5261.4	5256.8	5527.4	5818.7	6214.7	6902.0	6259.5
30°	6050.4	6072.7	5930.8	5755.9	5500.4	5289.7	5454.1	5715.6	6144.4	7029.1	6252.1
32.5°	6483.6	6507.5	6400.0	6216.2	5881.5	5493.0	5505.0	5724.5	6141.4	7206.9	6302.9
35°	6945.3	6972.3	6916.9	6761.6	6389.6	5868.0	5699.1	5869.4	6238.5	7478.7	6438.8
37.5°	7461.0	7502.7	7517.6	7369.8	6972.3	6362.6	6017.4	6144.4	6458.3	7856.8	6688.4
40°	8203.5	8261.8	8257.3	8045.2	7640.3	7030.6	6509.1	6541.9	6800.3	8362.0	7087.4
42.5°	9626.1	9638.0	9265.9	8804.3	8375.3	7732.9	7088.9	7061.9	7272.6	9001.5	7674.6
45°	11435.7	11386.3	10558.5	9666.4	9143.5	8539.7	7843.5	7711.9	7871.8	9781.6	8409.8
47.5°	12937.4	12823.8	11777.9	10546.6	9956.4	9416.9	8729.5	8499.5	8587.5	10666.1	9360.1
50°	13458.9	13373.7	12507.0	11278.8	10725.9	10486.9	9820.4	9494.6	9518.5	11721.1	10473.3
52.5°	13346.8	13334.9	12756.7	11761.4	11446.2	11610.6	11365.4	10924.6	10691.4	12892.6	11674.7
55°	13082.3	13107.8	12898.6	12323.3	12269.5	12695.3	13384.1	13058.4	12333.6	14074.6	12916.5
57.5°	12163.4	12229.2	12689.4	13030.0	13594.9	14228.4	15010.0	14917.3	14101.5	15352.2	14392.9
60°	9799.4	9951.9	11186.1	12892.6	14959.1	16940.5	17290.2	17075.1	15924.4	16937.6	16342.9
62.5°	6866.1	7024.6	8491.9	11162.2	14735.0	20003.8	21366.5	20438.6	18542.5	19273.1	18866.7
65°	3676.0	3752.1	4872.9	7744.7	12439.8	20636.0	27324.3	25912.1	22687.6	22152.7	21025.9
67.5°	2027.7	2069.5	2498.5	3910.5	7967.4	18171.9	31119.8	32186.6	27868.2	24069.7	20632.9
69°	1833.5	1872.3	2153.2	2961.6	5331.6	15025.0	30749.2	33840.8	30139.5	23880.0	19180.5
70°	1793.1	1828.9	2081.6	2729.9	4315.5	12384.6	29507.3	33417.8	30680.4	23200.0	17913.3
72.5°	1613.8	1652.6	1897.7	2452.2	3687.8	6174.3	23373.4	28255.2	27854.7	20115.8	13587.5
75°	1504.8	1540.7	1956.0	2401.3	3531.0	3907.4	15408.9	20824.1	20476.1	14071.6	7326.4
77.5°	644.1	641.0	907.0	2032.2	3583.2	3783.5	8279.8	13009.2	11869.0	6014.4	2103.9
80°	430.4	422.9	430.4	597.7	3285.9	3804.4	4337.8	6603.3	4987.8	1533.1	1037.1
82.5°	370.6	364.6	378.0	364.6	1155.1	4342.3	3687.8	3511.6	2371.4	871.1	514.0
85°	249.5	239.0	325.7	327.3	545.5	3858.2	4154.1	2966.2	1918.6	517.1	254.0
87.5°	119.6	116.6	189.8	231.7	319.7	1567.5	4660.6	3039.3	1935.0	264.6	121.0
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: P269393

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3	7882.3
2.5°	7806.1	7744.7	7685.0	7613.3	7538.5	7454.9	7413.2	7371.2	7360.8	7348.9	7307.1
5°	7590.9	7504.3	7354.9	7190.5	7017.1	6848.3	6719.7	6639.1	6577.7	6546.4	6491.2
7.5°	7313.0	7185.9	6924.5	6640.5	6349.2	6083.2	5853.0	5708.1	5570.7	5506.4	5433.2
10°	7048.6	6858.6	6452.3	6033.8	5615.5	5213.6	4835.4	4568.1	4330.4	4197.4	4103.3
12.5°	6821.4	6561.3	5998.1	5431.7	4857.9	4285.5	3719.3	3274.0	2901.9	2706.1	2606.1
15°	6600.1	6286.3	5566.2	4847.4	4110.7	3332.3	2588.0	2083.0	1775.2	1652.6	1610.8
17.5°	6400.0	5998.1	5132.8	4258.7	3339.7	2398.4	1739.4	1461.5	1343.3	1303.0	1289.5
20°	6183.4	5706.7	4683.0	3643.0	2535.7	1676.5	1358.2	1235.8	1188.0	1176.1	1170.0
22.5°	5974.1	5419.7	4252.7	2984.1	1821.6	1294.1	1167.0	1116.2	1108.8	1119.2	1119.2
25°	5796.3	5162.6	3788.1	2295.2	1337.3	1089.4	1044.5	1032.5	1061.0	1099.7	1107.3
27.5°	5663.3	4952.0	3293.4	1694.6	1065.4	947.4	945.8	965.3	1035.6	1110.2	1125.1
30°	5572.1	4751.8	2764.4	1222.4	893.5	833.7	857.7	899.6	1002.7	1108.8	1137.2
32.5°	5525.8	4603.9	2213.1	945.8	765.0	732.2	772.5	823.3	925.0	1023.6	1061.0
35°	5561.6	4494.8	1693.0	789.0	675.4	650.1	691.9	741.1	800.8	842.8	871.1
37.5°	5696.2	4451.5	1277.6	706.7	614.1	590.2	623.2	651.5	675.4	687.4	700.8
40°	5986.0	4497.8	1023.6	664.9	579.8	549.9	563.3	573.7	588.7	600.6	606.6
42.5°	6413.4	4636.7	917.4	648.5	561.8	518.5	515.5	519.9	539.4	561.8	566.3
45°	7011.1	4881.7	910.1	658.9	552.8	493.1	479.6	485.7	515.5	549.9	556.0
47.5°	7774.7	5255.4	969.8	690.3	560.4	479.6	457.2	464.8	502.1	548.3	556.0
50°	8699.6	5776.9	1069.9	736.7	593.2	482.7	449.8	454.3	493.1	544.0	551.4
52.5°	9792.0	6516.6	1178.9	781.4	627.6	502.1	455.8	445.3	481.1	526.0	534.9
55°	11006.8	7465.4	1291.0	821.9	645.5	526.0	467.7	433.3	458.8	496.1	503.6
57.5°	12498.1	8792.3	1485.3	860.7	657.5	542.4	479.6	421.3	430.4	457.2	463.3
60°	14516.9	10669.1	1827.5	925.0	684.4	548.3	478.2	411.0	401.9	417.0	419.9
62.5°	16936.0	12707.3	2113.0	1005.7	729.2	552.8	469.3	403.5	378.0	378.0	381.1
65°	18372.0	13252.8	1954.5	1072.8	766.6	548.3	458.8	396.1	360.1	343.7	345.2
67.5°	17154.3	11655.2	1675.1	1086.3	765.0	527.5	442.3	382.6	342.2	316.8	315.2
69°	15628.6	10056.4	1549.5	1050.5	729.2	500.5	421.3	367.5	328.7	301.8	300.4
70°	14398.8	9080.6	1467.4	1011.6	690.3	481.1	405.0	354.1	318.3	292.8	290.0
72.5°	10468.8	5950.3	1253.7	869.6	569.3	403.5	349.7	310.9	284.0	269.0	266.0
75°	5231.5	2837.7	1017.6	705.3	436.3	322.9	286.9	260.0	246.6	243.6	242.1
77.5°	1718.4	1299.9	727.6	526.0	324.3	252.6	231.7	212.2	209.1	218.2	215.1
80°	944.4	756.2	461.6	348.2	221.2	185.3	182.3	171.8	176.3	191.2	188.3
82.5°	481.1	393.0	285.4	209.1	149.4	132.9	144.9	139.0	144.9	158.5	156.9
85°	237.6	215.1	180.7	127.0	98.6	85.2	103.1	107.5	110.6	121.0	121.0
87.5°	137.5	127.0	95.6	59.7	49.2	44.8	59.7	58.3	68.7	74.6	73.2
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)