

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: P269318

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269318
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-05-LED-E1-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 28357 lumens
Efficiency: N/A
Efficacy: 88.6 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 - G4

Input Watts (W): 320
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

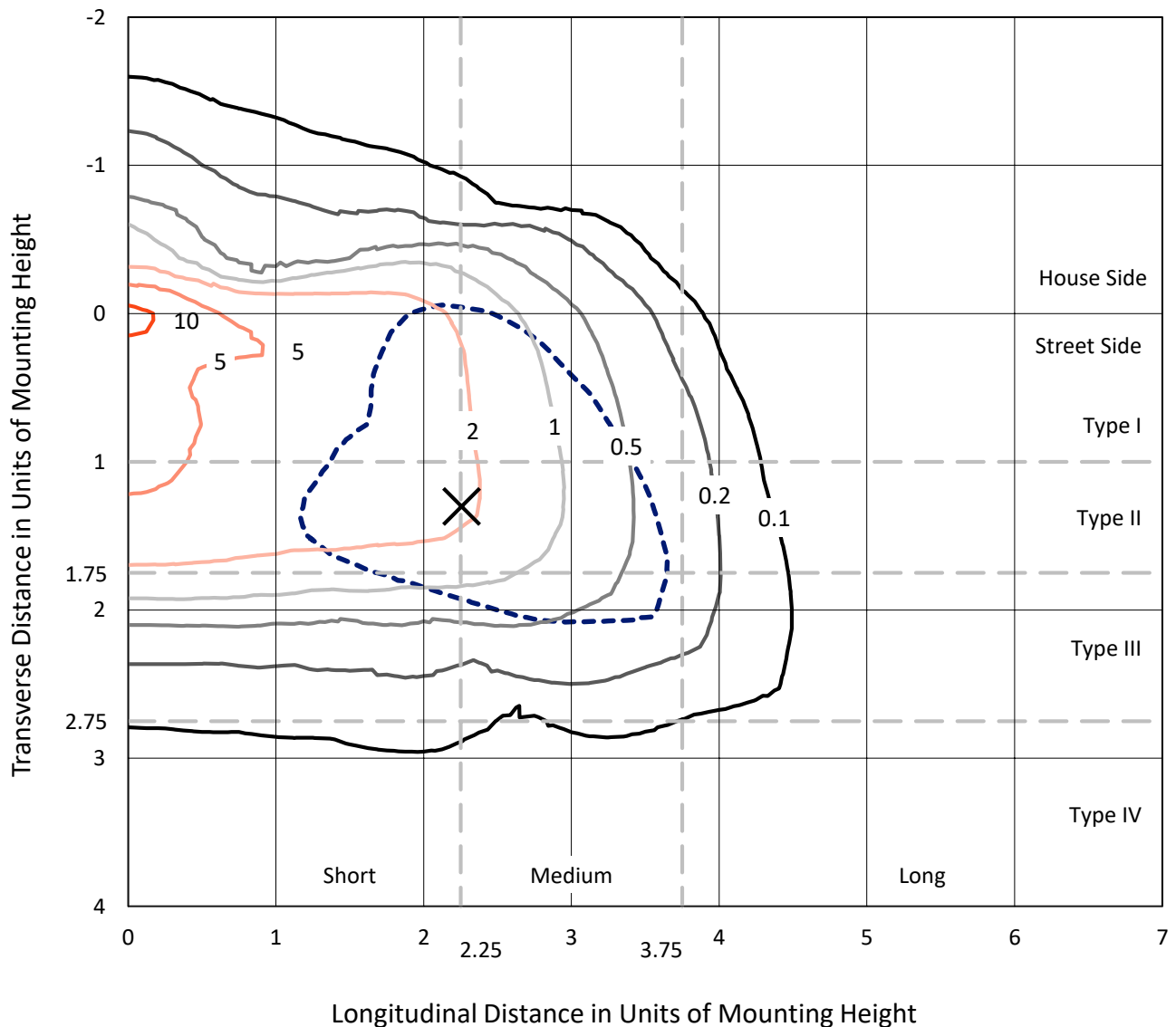


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

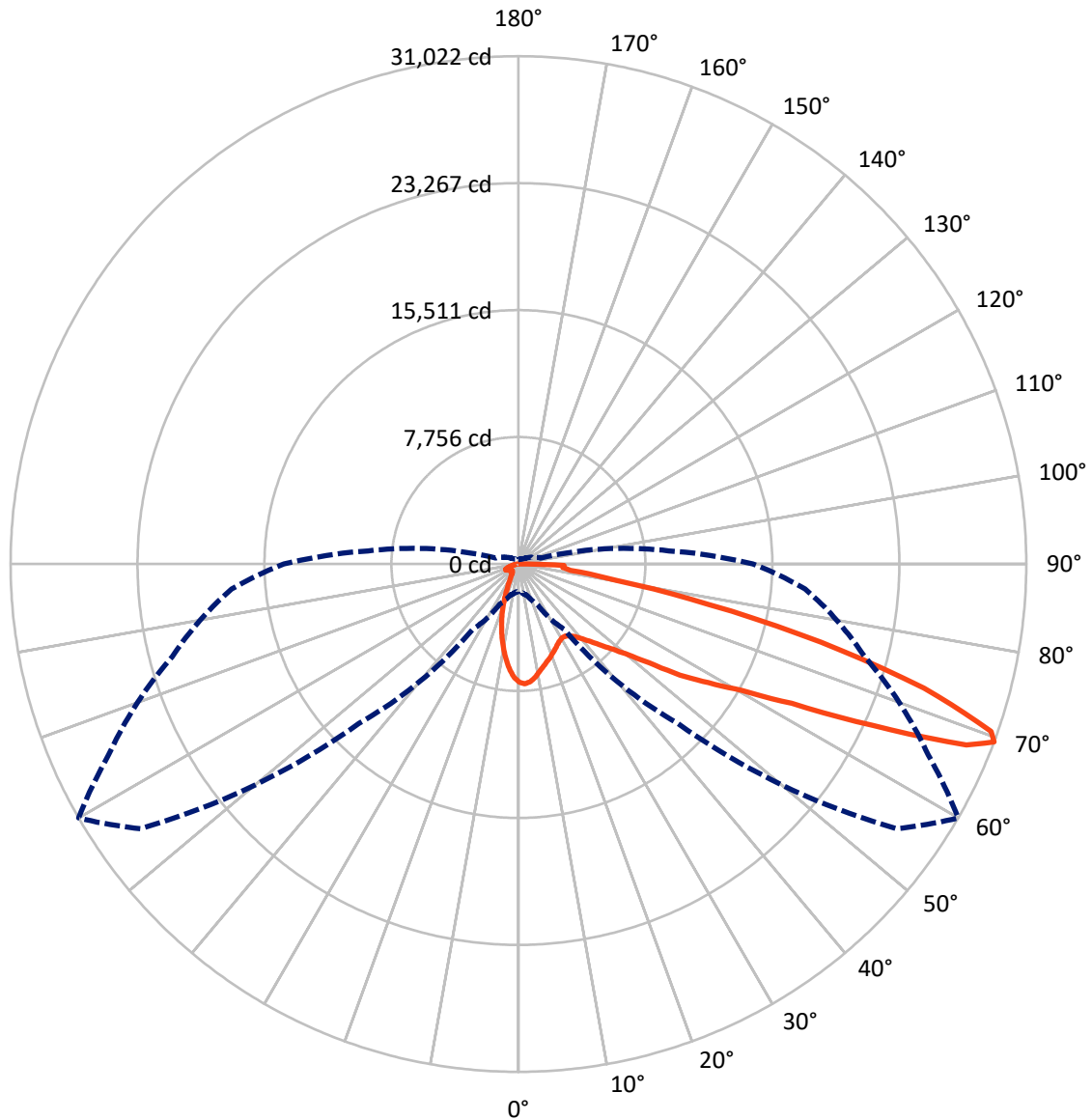


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - Non-Cutoff

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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	4034.3	0.0	4034.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24322.6	0.0	24322.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	28357.0	0.0	28357.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.0	2.2
10°-20°	1301.7	4.6
20°-30°	1658.6	5.8
30°-40°	2280.2	8.0
40°-50°	3699.8	13.0
50°-60°	5933.5	20.9
60°-70°	7897.0	27.8
70°-80°	4263.8	15.0
80°-90°	711.4	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°	28357.0	100.0
0°-180°	28357.0	100.0



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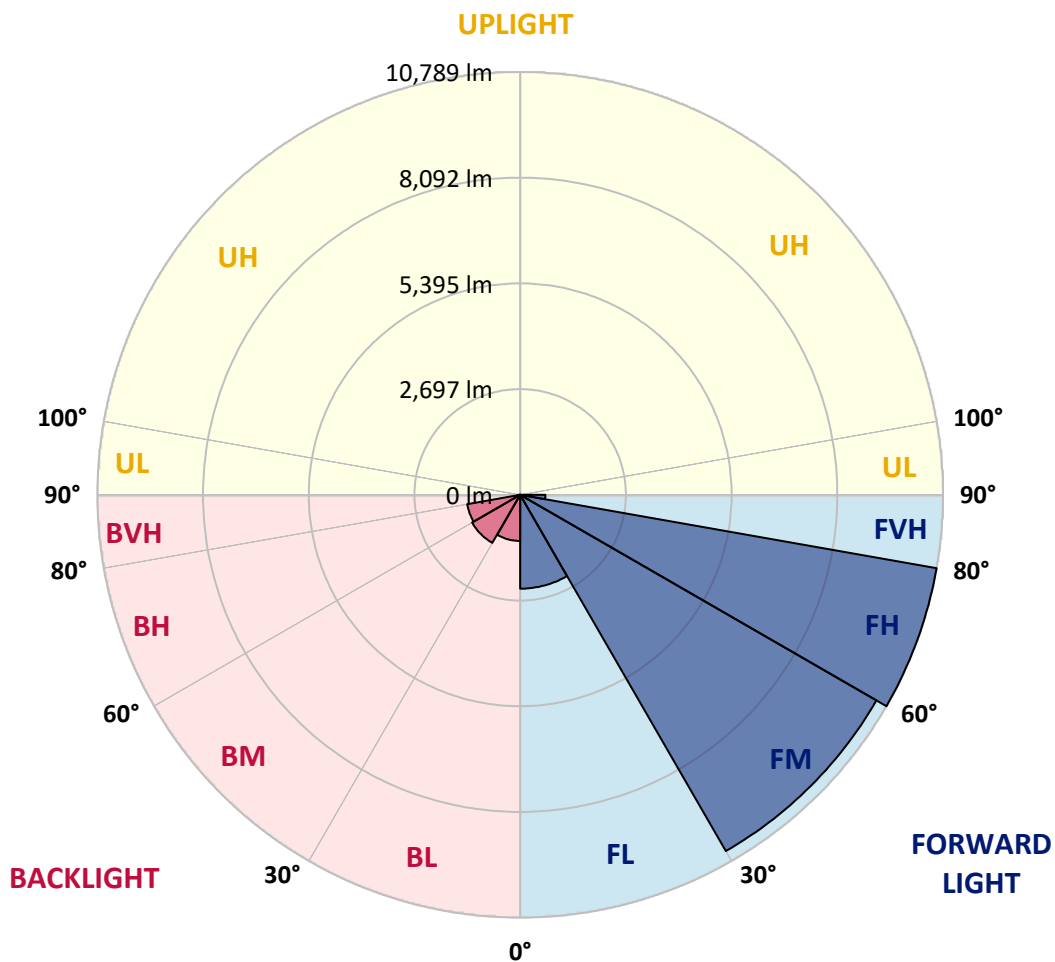
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2394.3	8.4			
FM	(30°-60°)	10496.1	37.0			
FH	(60°-80°)	10789.3	38.0			G4/12000
FVH	(80°-90°)	642.9	2.3			G4/750
BL	(0°-30°)	1176.9	4.2	B3/2500		
BM	(30°-60°)	1417.3	5.0	B2/2500		
BH	(60°-80°)	1371.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	68.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7
2.5°	7373.7	7390.1	7383.3	7379.1	7391.6	7372.4	7332.7	7320.3	7301.2	7255.9	7179.3
5°	7097.0	7146.3	7143.6	7180.6	7242.2	7258.7	7240.9	7243.7	7208.0	7151.9	7024.4
7.5°	6618.9	6639.6	6650.4	6731.3	6843.6	6933.9	7010.7	7035.3	7018.9	6970.9	6806.5
10°	6125.8	6142.3	6168.3	6262.9	6405.3	6529.9	6675.1	6758.7	6794.3	6786.1	6602.5
12.5°	5702.5	5719.0	5753.3	5860.1	6030.0	6183.4	6394.3	6498.3	6583.4	6634.1	6436.7
15°	5323.0	5358.7	5391.5	5514.9	5705.2	5906.6	6144.9	6276.5	6408.0	6521.6	6290.2
17.5°	5027.3	5062.8	5082.0	5194.4	5397.0	5643.6	5923.1	6077.9	6242.2	6428.5	6144.9
20°	4856.0	4872.4	4864.2	4927.3	5109.4	5371.1	5702.5	5882.0	6080.5	6340.9	5999.8
22.5°	4808.1	4809.4	4779.3	4772.4	4890.3	5110.7	5466.9	5684.7	5928.5	6283.4	5875.2
25°	4924.5	4920.3	4838.2	4771.1	4783.5	4912.1	5239.5	5493.0	5801.2	6271.0	5779.2
27.5°	5183.4	5195.6	5073.7	4947.8	4823.1	4819.0	5067.0	5334.0	5697.1	6327.2	5738.2
30°	5546.3	5566.9	5436.8	5276.6	5042.2	4849.1	4999.8	5239.5	5632.7	6443.6	5731.4
32.5°	5943.6	5965.6	5866.9	5698.5	5391.5	5035.4	5046.4	5247.8	5629.9	6606.7	5777.9
35°	6366.8	6391.6	6340.9	6198.5	5857.4	5379.3	5224.5	5380.7	5719.0	6856.0	5902.6
37.5°	6839.4	6877.9	6891.5	6756.0	6391.6	5832.6	5516.2	5632.7	5920.4	7202.5	6131.3
40°	7520.3	7573.7	7569.6	7375.1	7003.8	6445.0	5966.9	5997.1	6234.1	7665.4	6497.0
42.5°	8824.4	8835.3	8494.3	8070.9	7677.9	7088.9	6498.3	6473.7	6667.0	8251.8	7035.3
45°	10483.2	10437.9	9679.1	8861.3	8381.9	7828.5	7190.2	7069.7	7216.3	8966.8	7709.3
47.5°	11859.9	11755.8	10796.9	9668.2	9127.0	8632.6	8002.6	7791.4	7872.3	9777.7	8580.5
50°	12338.0	12259.9	11465.3	10339.4	9832.6	9613.4	9002.5	8703.8	8725.7	10744.8	9601.1
52.5°	12235.3	12224.2	11694.1	10781.8	10492.8	10643.5	10418.8	10014.8	9801.0	11818.8	10702.3
55°	11992.7	12016.1	11824.3	11296.8	11247.6	11637.9	12269.5	11970.9	11306.4	12902.3	11840.6
57.5°	11150.3	11210.6	11632.5	11944.9	12462.5	13043.4	13759.8	13674.9	12927.0	14073.4	13194.0
60°	8983.3	9122.9	10254.4	11818.8	13713.3	15529.5	15850.1	15652.8	14598.1	15526.8	14981.8
62.5°	6294.3	6439.5	7784.7	10232.6	13507.8	18337.7	19587.1	18736.4	16998.1	17668.0	17295.2
65°	3369.7	3439.6	4467.0	7099.8	11403.8	18917.1	25048.5	23754.1	20797.9	20307.5	19274.8
67.5°	1858.9	1897.2	2290.3	3584.7	7303.8	16658.3	28527.8	29505.9	25547.1	22065.0	18914.4
69°	1680.8	1716.4	1973.8	2714.9	4887.5	13773.5	28188.1	31022.2	27629.2	21891.1	17583.0
70°	1643.8	1676.6	1908.2	2502.7	3956.0	11353.0	27049.8	30634.5	28125.0	21267.8	16421.3
72.5°	1479.4	1515.0	1739.7	2247.9	3380.7	5660.1	21426.7	25901.9	25534.7	18440.4	12455.8
75°	1379.3	1412.2	1793.0	2201.2	3237.0	3582.1	14125.6	19089.8	18770.7	12899.7	6716.2
77.5°	590.4	587.6	831.6	1862.9	3284.8	3468.4	7590.1	11925.5	10880.5	5513.4	1928.8
80°	394.5	387.7	394.5	548.0	3012.2	3487.6	3976.5	6053.1	4572.5	1405.4	950.6
82.5°	339.6	334.2	346.6	334.2	1058.8	3980.7	3380.7	3219.0	2173.9	798.7	471.3
85°	228.8	219.1	298.6	300.0	499.9	3536.8	3808.1	2719.1	1758.8	473.9	232.9
87.5°	109.7	106.9	173.9	212.3	293.1	1437.0	4272.5	2786.3	1774.0	242.5	110.9
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°	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7	7225.7
2.5°	7155.9	7099.8	7045.0	6979.2	6910.8	6834.0	6795.7	6757.3	6747.7	6736.7	6698.4
5°	6958.7	6879.2	6742.3	6591.6	6432.7	6277.9	6160.0	6086.0	6030.0	6001.1	5950.6
7.5°	6704.0	6587.5	6347.8	6087.5	5820.4	5576.5	5365.5	5232.6	5106.7	5047.8	4980.7
10°	6461.4	6287.4	5914.9	5531.4	5147.7	4779.3	4432.7	4187.4	3969.7	3847.8	3761.6
12.5°	6253.2	6015.0	5498.4	4979.2	4453.3	3928.6	3409.4	3001.2	2660.2	2480.7	2389.0
15°	6050.4	5762.8	5102.6	4443.6	3768.4	3054.6	2372.6	1909.5	1627.3	1515.0	1476.6
17.5°	5866.9	5498.4	4705.3	3903.9	3061.6	2198.5	1594.5	1339.7	1231.4	1194.4	1182.2
20°	5668.3	5231.3	4293.0	3339.5	2324.5	1536.9	1245.2	1132.9	1089.0	1078.1	1072.5
22.5°	5476.5	4968.3	3898.6	2735.5	1669.8	1186.2	1069.8	1023.3	1016.4	1026.0	1026.0
25°	5313.6	4732.7	3472.5	2104.0	1225.9	998.6	957.6	946.5	972.5	1008.2	1015.1
27.5°	5191.7	4539.6	3019.1	1553.3	976.6	868.5	867.1	884.9	949.2	1017.8	1031.4
30°	5108.0	4356.1	2534.2	1120.5	819.2	764.4	786.2	824.6	919.1	1016.4	1042.5
32.5°	5065.6	4220.3	2028.7	867.1	701.3	671.3	708.3	754.8	847.9	938.3	972.5
35°	5098.5	4120.4	1552.0	723.2	619.1	595.8	634.3	679.4	734.3	772.6	798.7
37.5°	5221.8	4080.7	1171.2	647.9	563.0	541.0	571.2	597.3	619.1	630.2	642.5
40°	5487.4	4123.1	938.3	609.6	531.4	504.0	516.4	526.0	539.7	550.8	556.1
42.5°	5879.2	4250.5	841.1	594.5	515.1	475.4	472.6	476.7	494.4	515.1	519.2
45°	6427.2	4475.1	834.3	604.1	506.9	452.0	439.7	445.2	472.6	504.0	509.6
47.5°	7127.2	4817.6	889.1	632.9	513.7	439.7	419.1	426.1	460.2	502.7	509.6
50°	7975.1	5295.7	980.8	675.3	543.8	442.4	412.3	416.5	452.0	498.6	505.4
52.5°	8976.5	5973.8	1080.8	716.4	575.4	460.2	417.8	408.2	441.1	482.2	490.4
55°	10090.1	6843.6	1183.5	753.4	591.8	482.2	428.8	397.2	420.5	454.8	461.5
57.5°	11457.2	8060.0	1361.7	789.0	602.8	497.2	439.7	386.4	394.5	419.1	424.7
60°	13307.9	9780.4	1675.2	847.9	627.3	502.7	438.4	376.7	368.5	382.1	385.0
62.5°	15525.4	11649.0	1936.9	921.9	668.5	506.9	430.1	369.8	346.6	346.6	349.4
65°	16842.0	12148.9	1791.7	983.6	702.7	502.7	420.5	363.1	330.1	315.0	316.5
67.5°	15725.5	10684.6	1535.6	995.9	701.3	483.6	405.5	350.7	313.7	290.4	289.1
69°	14326.9	9218.9	1420.5	963.1	668.5	458.9	386.4	337.0	301.3	276.7	275.3
70°	13199.5	8324.4	1345.1	927.4	632.9	441.1	371.2	324.6	291.8	268.5	265.8
72.5°	9597.0	5454.6	1149.3	797.2	521.8	369.8	320.5	284.9	260.2	246.6	243.8
75°	4795.7	2601.3	932.8	646.6	399.9	295.9	263.1	238.3	226.1	223.3	221.9
77.5°	1575.3	1191.7	667.1	482.2	297.2	231.6	212.3	194.6	191.8	200.1	197.3
80°	865.7	693.1	423.3	319.2	202.7	169.9	167.2	157.6	161.7	175.3	172.7
82.5°	441.1	360.3	261.6	191.8	137.0	121.9	132.9	127.4	132.9	145.2	143.8
85°	217.7	197.3	165.7	116.4	90.4	78.2	94.5	98.6	101.4	110.9	110.9
87.5°	126.0	116.4	87.7	54.7	45.3	41.1	54.7	53.4	63.1	68.5	67.2
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)