

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: P269390

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33239.8 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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

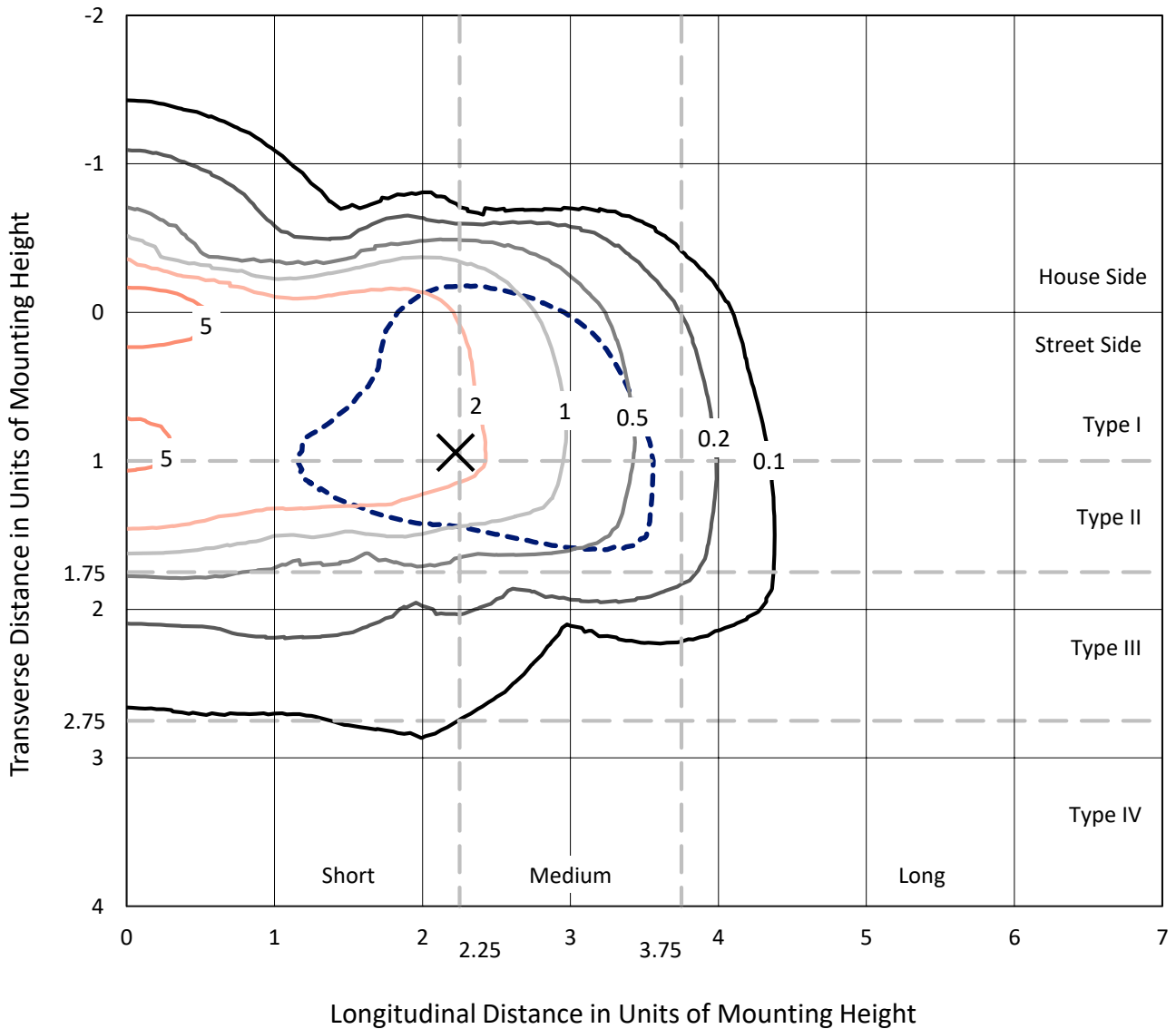


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

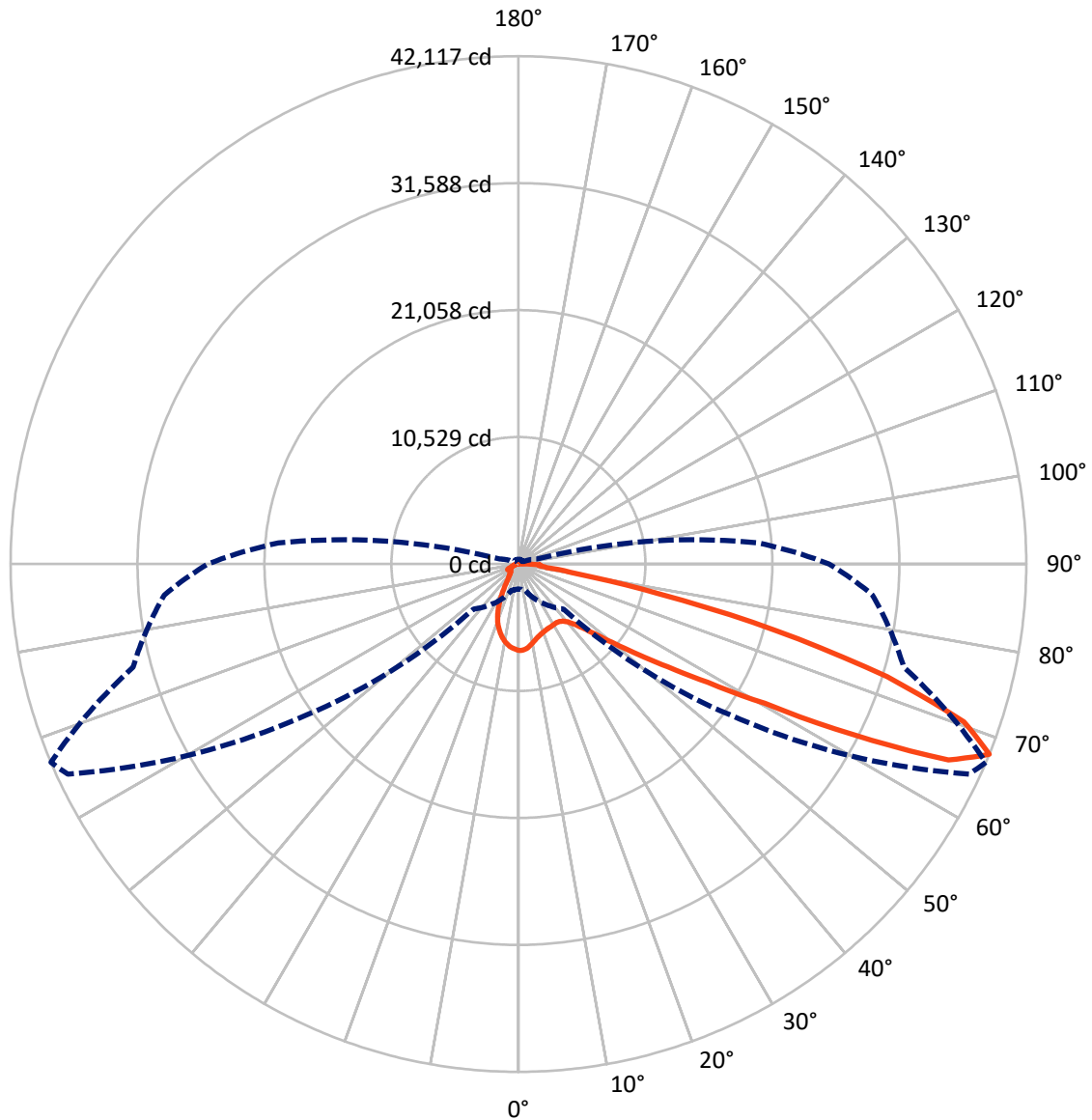


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5507.5	0.0	5507.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	27732.4	0.0	27732.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	33239.8	0.0	33239.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.7	1.8
10°-20°	1415.3	4.3
20°-30°	1918.5	5.8
30°-40°	2727.4	8.2
40°-50°	4563.0	13.7
50°-60°	7218.7	21.7
60°-70°	9195.9	27.7
70°-80°	4816.8	14.5
80°-90°	772.5	2.3
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°	33239.8	100.0
0°-180°	33239.8	100.0



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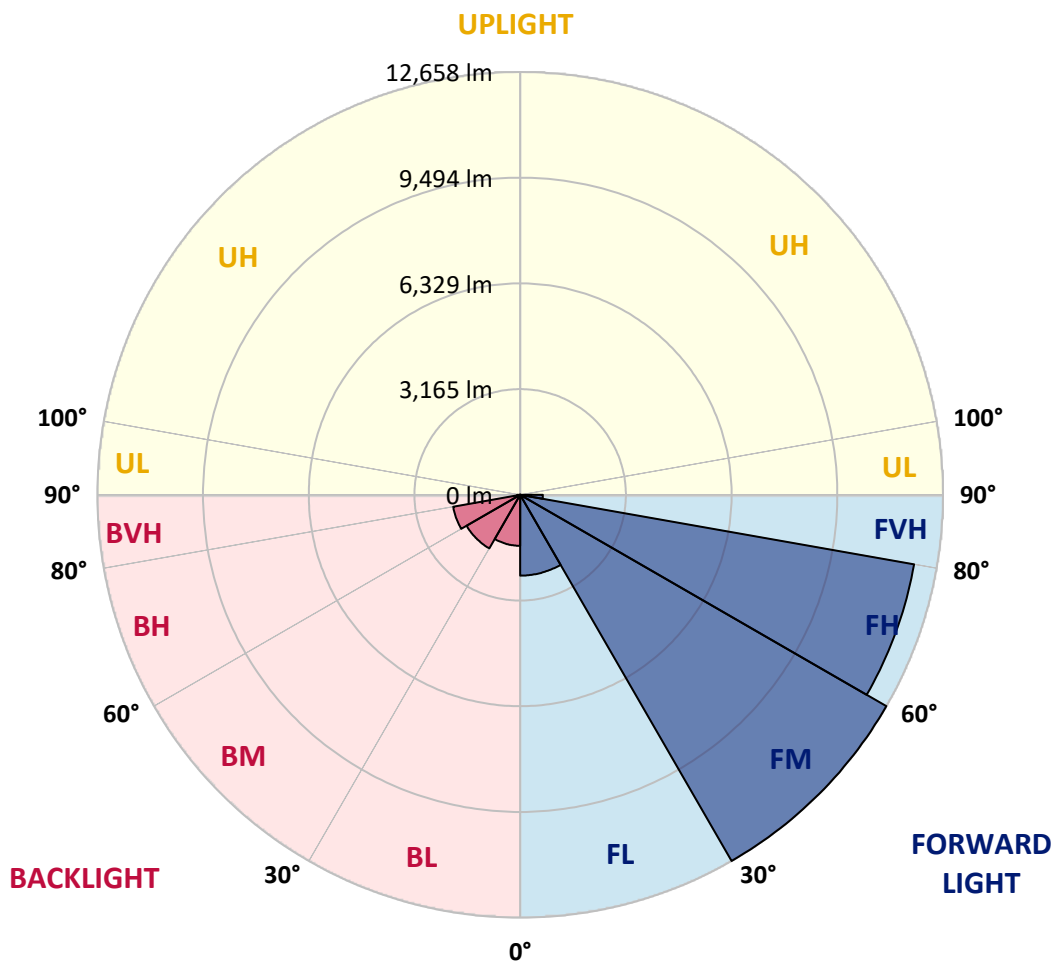
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.0	7.3			
FM (30°-60°)	12658.4	38.1			
FH (60°-80°)	11975.6	36.0			G4/12000
FVH (80°-90°)	679.3	2.0			G4/750
BL (0°-30°)	1526.5	4.6	B3/2500		
BM (30°-60°)	1850.7	5.6	B2/2500		
BH (60°-80°)	2037.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	93.2	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7
2.5°	6874.6	6886.1	6922.2	6945.2	7048.5	7092.7	7123.9	7155.0	7159.9	7174.7	7159.9
5°	6153.5	6178.1	6245.2	6320.7	6520.6	6678.0	6843.6	7015.7	7046.8	7158.2	7189.5
7.5°	5594.6	5587.9	5643.7	5733.8	5938.8	6156.8	6446.9	6789.5	6856.7	7107.5	7228.8
10°	5186.4	5181.5	5240.4	5333.9	5529.0	5735.5	6063.3	6532.1	6627.2	7027.1	7266.5
12.5°	4884.8	4886.4	4945.3	5048.7	5247.0	5455.1	5787.9	6282.9	6404.2	6933.7	7305.7
15°	4684.8	4697.9	4745.3	4855.2	5048.7	5256.8	5583.1	6096.1	6232.1	6859.9	7350.0
17.5°	4617.6	4638.8	4655.2	4735.5	4901.2	5109.3	5428.9	5958.4	6102.6	6809.2	7389.4
20°	4679.8	4704.5	4673.3	4701.2	4806.0	4989.6	5307.6	5850.2	5997.8	6751.8	7394.3
22.5°	4947.1	4970.1	4878.2	4797.8	4791.3	4902.8	5207.7	5765.1	5917.5	6709.1	7395.9
25°	5417.5	5432.2	5278.1	5091.2	4909.3	4871.6	5137.1	5705.9	5868.3	6671.4	7364.8
27.5°	5994.5	6006.0	5828.9	5553.5	5188.0	4945.3	5112.7	5671.5	5840.4	6638.7	7312.4
30°	6696.1	6750.1	6512.4	6165.0	5632.3	5163.4	5161.8	5653.6	5809.2	6582.9	7209.1
32.5°	7414.0	7437.0	7272.9	6920.6	6230.6	5546.9	5299.5	5666.6	5801.1	6515.8	7077.9
35°	8141.8	8171.3	8064.8	7781.2	7048.5	6109.3	5568.2	5743.7	5851.9	6492.8	6986.2
37.5°	9084.3	9123.6	8976.1	8648.3	8043.5	6871.5	6015.8	5937.1	6007.5	6558.3	6958.4
40°	10574.3	10556.3	10125.2	9636.7	9131.8	7846.8	6655.1	6264.9	6305.9	6769.7	7043.5
42.5°	12308.5	12264.3	11521.8	10754.6	10328.4	9027.0	7500.8	6833.8	6825.5	7186.1	7343.6
45°	13692.1	13655.9	12987.2	12041.4	11700.5	10371.0	8594.2	7681.1	7620.5	7846.8	7897.5
47.5°	14441.2	14442.8	14057.5	13285.6	13277.3	12079.1	9998.9	8907.2	8802.4	8908.9	8854.9
50°	14178.8	14213.3	14172.3	13926.5	14716.6	14318.2	11833.3	10617.0	10405.4	10510.3	10302.2
52.5°	12910.1	12954.4	13197.0	13574.0	15321.3	17024.5	14528.0	12741.3	12495.5	12457.8	12226.7
55°	10661.2	10715.3	11210.3	12234.7	14818.1	18842.3	18780.1	15449.2	15057.5	14701.8	14603.3
57.5°	7348.5	7438.5	8235.2	9756.4	13190.4	19391.4	23843.4	19309.4	18512.8	17270.4	17293.4
60°	4142.2	4247.0	5186.4	6568.1	9905.5	18794.8	27695.6	25156.5	23474.6	20278.2	20448.7
62.5°	2634.2	2747.2	3460.4	4563.5	5943.6	15582.0	29274.1	33285.1	31149.3	23986.1	24153.3
65°	2132.5	2181.8	2517.8	3766.9	4315.9	9387.6	28075.7	39981.1	39184.4	28692.1	27911.9
67.5°	2081.7	2098.1	2272.0	3161.9	4138.9	5276.6	22394.3	41233.5	42116.9	33086.7	29477.3
70°	2057.2	2114.5	2560.3	3017.8	3963.5	4450.4	13457.6	37800.9	39195.9	34235.8	27394.0
72.5°	998.2	995.1	1288.3	2729.2	4465.1	4615.9	6914.1	30585.3	31985.2	29660.9	22510.7
75°	804.8	736.0	703.3	1000.0	4293.0	4766.8	4406.0	21045.3	22058.4	19886.5	13837.9
77.5°	763.9	682.0	624.5	626.2	1814.5	5055.2	3732.4	11648.0	11943.1	8982.7	3791.3
80°	632.8	557.3	516.3	581.9	878.6	4814.2	4035.6	5271.7	4837.3	2206.3	1262.2
82.5°	439.4	399.9	388.4	488.5	703.3	3430.7	4692.9	2832.4	2375.2	1104.7	778.7
85°	280.4	239.3	265.5	355.6	547.4	1583.4	4833.9	2207.9	1755.6	701.5	439.4
87.5°	129.4	104.9	131.2	196.6	357.3	545.8	4599.5	2480.1	1808.0	370.5	276.9
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°	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7
2.5°	7173.1	7141.9	7117.4	7071.4	7020.6	6971.3	6927.2	6871.5	6855.1	6840.2	6863.2
5°	7196.1	7164.8	7074.7	6933.7	6778.0	6632.0	6486.2	6361.6	6284.6	6242.1	6266.5
7.5°	7230.4	7186.1	6999.2	6740.3	6460.0	6204.2	5940.4	5728.9	5573.2	5499.5	5520.8
10°	7261.5	7176.3	6871.5	6483.0	6073.1	5692.9	5276.6	4932.2	4676.5	4542.2	4575.0
12.5°	7274.7	7138.7	6692.7	6161.7	5599.4	5042.0	4429.1	3914.4	3547.1	3412.8	3385.0
15°	7287.8	7096.0	6496.1	5796.1	5027.4	4238.9	3380.1	2763.6	2458.8	2391.6	2376.7
17.5°	7291.1	7022.2	6273.1	5399.4	4356.9	3283.2	2311.2	1919.5	1921.1	2029.4	2042.3
20°	7256.6	6912.4	6002.7	4906.1	3553.8	2270.2	1586.8	1519.6	1767.1	2037.4	2070.2
22.5°	7177.9	6766.6	5696.2	4330.6	2634.2	1494.9	1227.8	1301.6	1621.1	1952.2	1989.9
25°	7077.9	6589.4	5333.9	3663.6	1744.1	1068.8	1029.4	1119.6	1335.9	1557.2	1578.5
27.5°	6941.9	6379.7	4927.4	2899.6	1132.7	880.2	906.5	967.1	1055.6	1154.1	1163.8
30°	6766.6	6128.9	4493.1	2114.5	855.6	791.8	829.5	862.3	899.9	955.6	960.6
32.5°	6565.0	5887.9	4047.1	1460.6	759.0	745.9	775.3	791.8	821.2	855.6	858.9
35°	6396.0	5658.5	3584.9	1032.7	717.9	711.4	731.1	737.6	765.4	803.3	806.5
37.5°	6299.4	5471.5	3107.9	832.6	690.1	680.2	691.8	691.8	731.1	786.7	795.0
40°	6305.9	5368.4	2630.9	752.4	667.1	654.1	655.7	655.7	706.4	767.2	772.1
42.5°	6484.5	5394.5	2207.9	721.2	649.1	634.4	626.2	631.1	673.6	713.1	716.3
45°	6904.3	5579.7	1811.3	701.5	631.1	626.2	608.2	606.4	622.9	640.9	640.9
47.5°	7592.7	5945.3	1542.5	688.5	616.3	614.7	593.4	572.1	570.5	577.0	577.0
50°	8712.2	6574.8	1362.2	673.6	606.4	593.4	568.7	536.0	524.5	529.5	529.5
52.5°	10390.8	7697.5	1293.3	654.1	585.2	563.9	536.0	503.2	493.3	495.1	495.1
55°	12592.1	9422.0	1283.5	631.1	562.2	527.8	504.8	480.2	468.7	472.1	472.1
57.5°	15282.1	11807.0	1458.8	594.9	531.1	491.7	478.6	462.3	454.1	458.9	457.3
60°	18552.2	14927.9	2163.7	557.3	499.9	458.9	458.9	445.9	439.4	444.2	442.5
62.5°	22319.0	18512.8	3042.3	529.5	467.2	432.8	439.4	432.8	426.2	429.5	427.9
65°	25659.6	20848.7	2848.9	508.1	434.4	408.2	419.6	416.4	411.5	414.7	413.1
67.5°	25756.4	19983.2	1599.8	485.3	403.2	383.5	399.9	398.3	395.1	398.3	396.7
70°	22986.1	16873.7	901.5	442.5	370.5	354.0	377.0	375.4	372.1	378.6	377.0
72.5°	18416.2	12244.6	658.9	390.1	337.7	322.9	349.1	347.6	347.6	357.3	352.4
75°	10597.2	6301.0	526.1	334.3	303.3	291.8	314.8	316.4	319.6	332.7	322.9
77.5°	3021.0	1963.8	429.5	283.5	260.6	255.7	278.7	282.0	283.5	298.3	285.2
80°	1122.8	904.9	354.0	237.7	213.1	214.8	236.1	240.9	242.6	257.4	240.9
82.5°	716.3	596.7	286.9	183.7	167.3	165.6	191.8	198.3	198.3	200.1	190.1
85°	418.0	357.3	216.4	132.8	117.9	113.0	142.7	154.1	149.2	145.9	139.3
87.5°	280.4	245.9	132.8	73.8	63.9	60.6	83.6	91.7	88.6	83.6	78.7
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)