

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: P193626

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193626
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-08-LED-E1-SL2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 30811 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

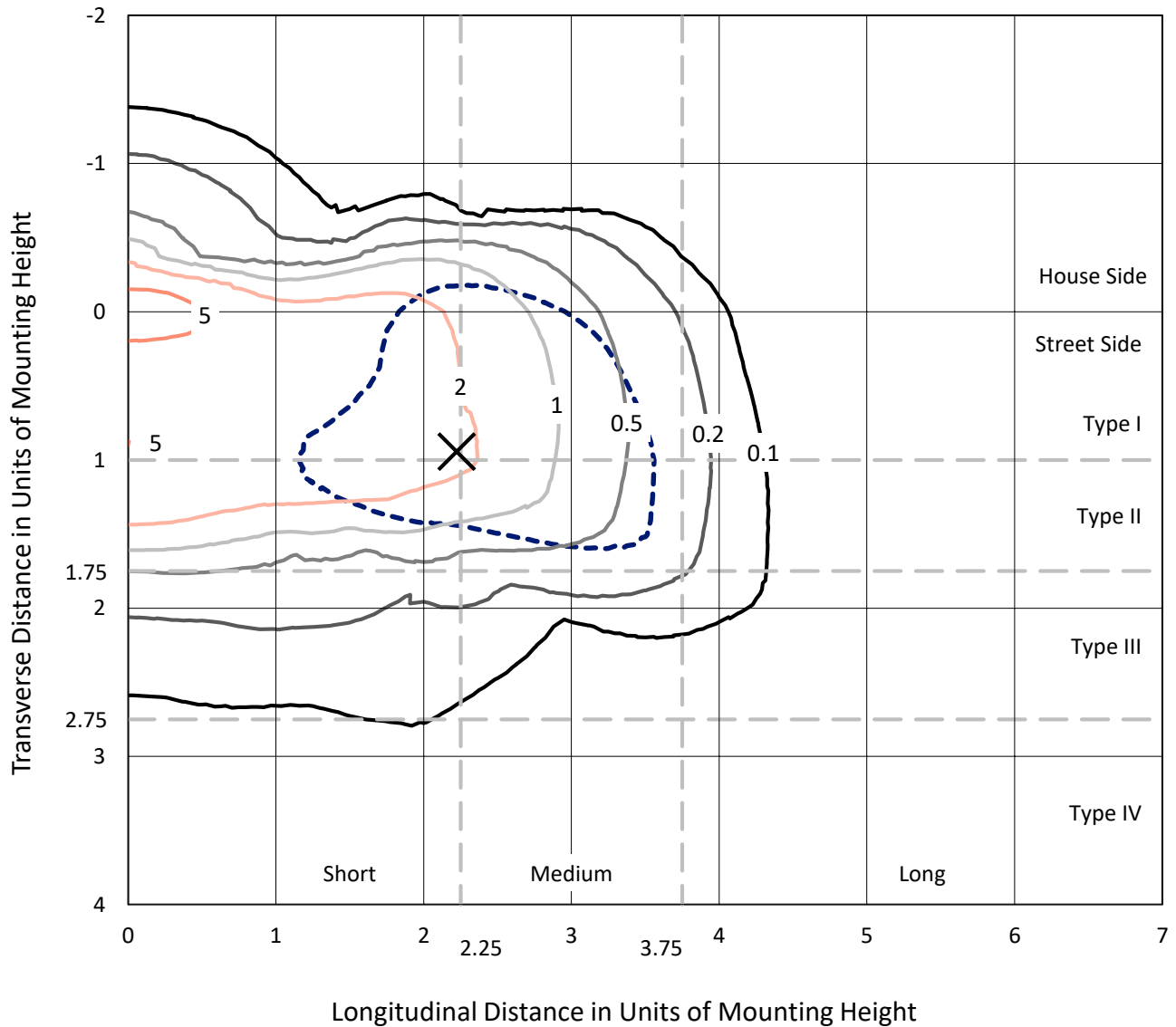


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Iso-Footcandle Lines of Horizontal Illumination

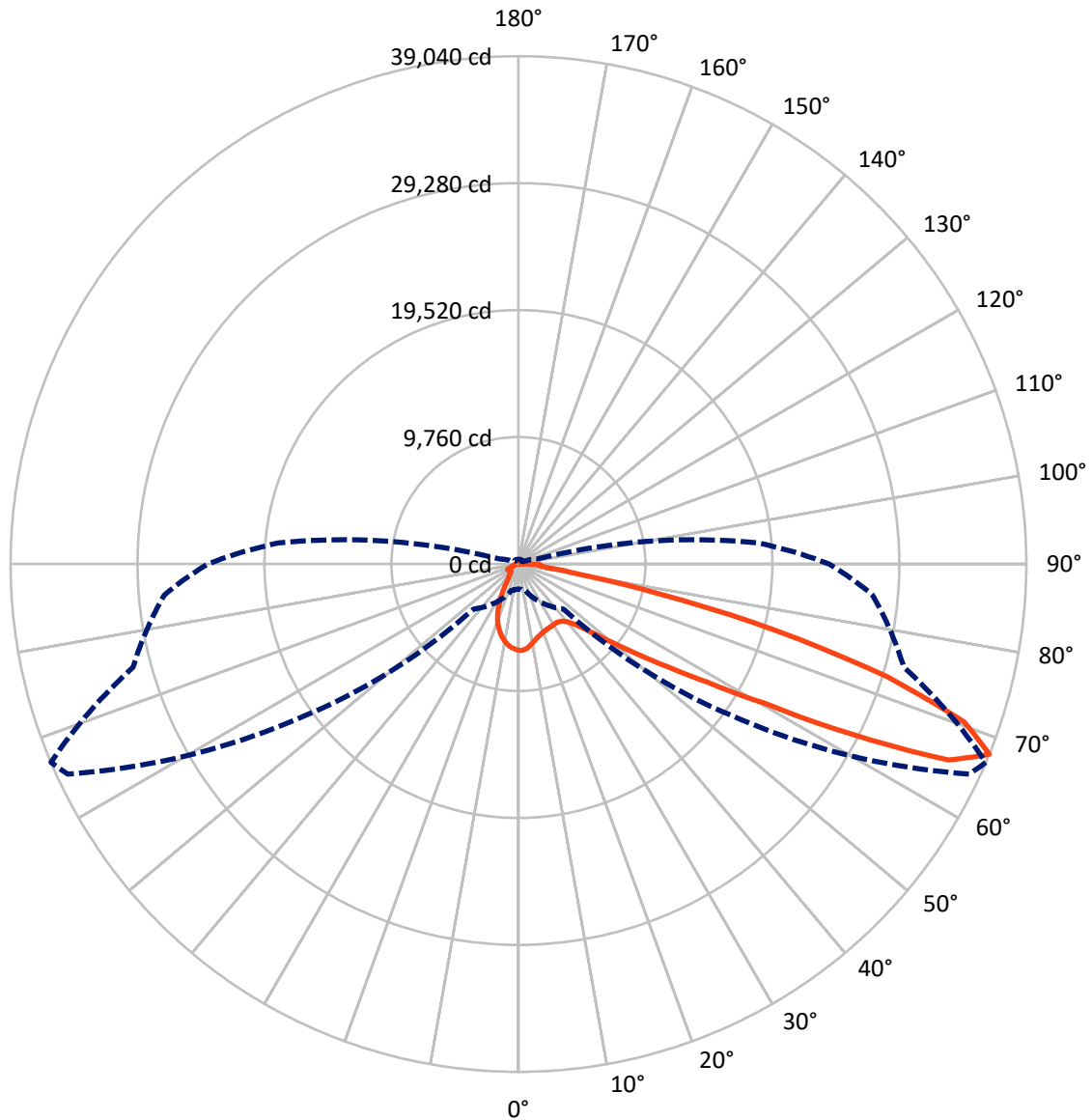
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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	5105.0	0.0	5105.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	25706.0	0.0	25706.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	30811.0	0.0	30811.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.0	1.8
10°-20°	1311.9	4.3
20°-30°	1778.3	5.8
30°-40°	2528.1	8.2
40°-50°	4229.6	13.7
50°-60°	6691.2	21.7
60°-70°	8523.9	27.7
70°-80°	4464.8	14.5
80°-90°	716.1	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°	30811.0	100.0
0°-180°	30811.0	100.0



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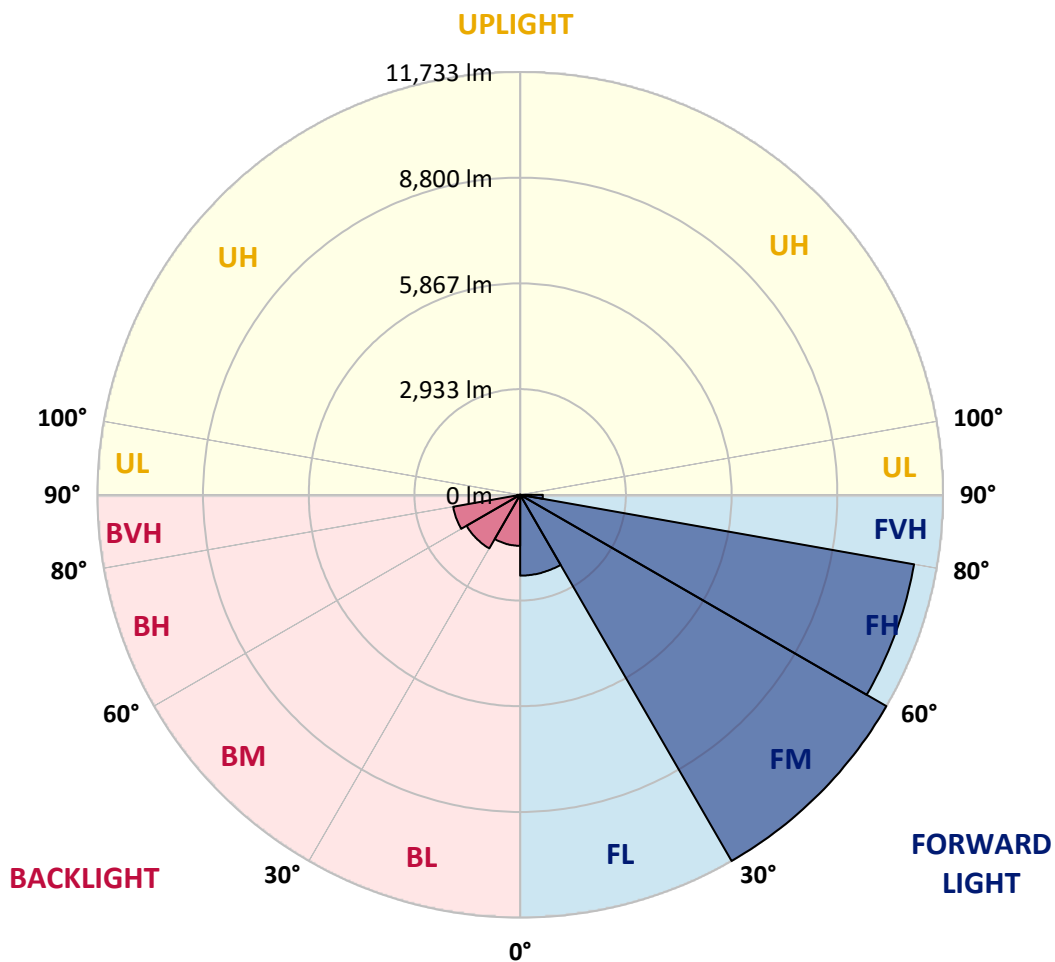
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2242.3	7.3			
FM	(30°-60°)	11733.5	38.1			
FH	(60°-80°)	11100.6	36.0			G4/12000
FVH	(80°-90°)	629.6	2.0			G4/750
BL	(0°-30°)	1415.0	4.6	B3/2500		
BM	(30°-60°)	1715.4	5.6	B2/2500		
BH	(60°-80°)	1888.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	86.4	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°	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9
2.5°	6372.4	6383.0	6416.4	6437.7	6533.4	6574.4	6603.3	6632.2	6636.7	6650.4	6636.7
5°	5703.8	5726.6	5788.9	5858.8	6044.2	6190.0	6343.5	6503.0	6531.9	6635.2	6664.1
7.5°	5185.7	5179.6	5231.3	5314.9	5504.8	5706.9	5975.8	6293.4	6355.7	6588.1	6700.6
10°	4807.4	4802.8	4857.5	4944.1	5124.9	5316.4	5620.3	6054.8	6142.9	6513.7	6735.5
12.5°	4527.8	4529.3	4584.0	4679.8	4863.6	5056.6	5365.0	5823.9	5936.3	6427.1	6772.0
15°	4342.4	4354.6	4398.7	4500.5	4679.8	4872.7	5175.1	5650.6	5776.8	6358.7	6813.0
17.5°	4280.2	4299.9	4315.1	4389.5	4543.0	4736.0	5032.3	5523.0	5656.7	6311.6	6849.5
20°	4337.9	4360.7	4331.8	4357.6	4454.9	4625.1	4919.8	5422.7	5559.5	6258.4	6854.0
22.5°	4585.6	4606.8	4521.7	4447.3	4441.2	4544.5	4827.1	5343.7	5485.0	6218.9	6855.5
25°	5021.6	5035.3	4892.5	4719.3	4550.6	4515.7	4761.8	5289.0	5439.5	6184.0	6826.7
27.5°	5556.4	5567.1	5403.0	5147.7	4808.9	4584.0	4739.0	5257.1	5413.6	6153.6	6778.0
30°	6206.8	6256.9	6036.6	5714.5	5220.7	4786.1	4784.6	5240.4	5384.8	6101.9	6682.3
32.5°	6872.2	6893.5	6741.6	6414.9	5775.2	5141.7	4912.2	5252.6	5377.2	6039.6	6560.8
35°	7546.9	7574.2	7475.4	7212.6	6533.4	5662.8	5161.4	5324.0	5424.3	6018.3	6475.7
37.5°	8420.5	8457.0	8320.2	8016.4	7455.7	6369.3	5576.2	5503.3	5568.6	6079.1	6449.9
40°	9801.7	9784.9	9385.3	8932.6	8464.6	7273.4	6168.8	5807.1	5845.1	6275.1	6528.9
42.5°	11409.2	11368.2	10679.9	9968.8	9573.7	8367.3	6952.8	6334.4	6326.8	6661.1	6806.9
45°	12691.6	12658.1	12038.2	11161.5	10845.5	9613.2	7966.2	7119.9	7063.7	7273.4	7320.5
47.5°	13385.9	13387.4	13030.4	12314.7	12307.1	11196.5	9268.3	8256.4	8159.2	8257.9	8207.8
50°	13142.8	13174.7	13136.7	12908.8	13641.2	13272.0	10968.6	9841.2	9645.2	9742.4	9549.4
52.5°	11966.8	12007.8	12232.7	12582.2	14201.8	15780.5	13466.4	11810.3	11582.4	11547.4	11333.2
55°	9882.2	9932.3	10391.2	11340.8	13735.4	17465.5	17407.8	14320.3	13957.2	13627.5	13536.3
57.5°	6811.5	6895.0	7633.5	9043.5	12226.6	17974.5	22101.2	17898.5	17160.1	16008.4	16029.7
60°	3839.5	3936.8	4807.4	6088.2	9181.7	17421.4	25671.8	23318.2	21759.3	18796.5	18954.5
62.5°	2441.7	2546.5	3207.5	4230.0	5509.3	14443.4	27135.0	30852.9	28873.2	22233.4	22388.4
65°	1976.7	2022.3	2333.8	3491.6	4000.6	8701.6	26024.3	37059.7	36321.3	26595.6	25872.3
67.5°	1929.6	1944.8	2105.9	2930.9	3836.5	4890.9	20758.0	38220.5	39039.5	30669.1	27323.4
70°	1906.8	1960.0	2373.3	2797.2	3673.9	4125.2	12474.3	35038.9	36331.9	31734.2	25392.2
72.5°	925.3	922.3	1194.2	2529.8	4138.8	4278.6	6408.8	28350.5	29648.1	27493.5	20865.9
75°	746.0	682.2	651.8	926.8	3979.3	4418.4	4084.1	19507.6	20446.6	18433.4	12826.8
77.5°	708.0	632.1	578.9	580.4	1682.0	4685.8	3459.7	10796.9	11070.4	8326.3	3514.4
80°	586.5	516.6	478.6	539.4	814.4	4462.5	3740.8	4886.4	4483.8	2045.1	1169.9
82.5°	407.2	370.7	360.1	452.8	651.8	3180.1	4350.0	2625.5	2201.6	1024.1	721.7
85°	259.8	221.8	246.1	329.7	507.5	1467.7	4480.7	2046.6	1627.3	650.3	407.2
87.5°	120.0	97.2	121.6	182.3	331.2	506.0	4263.4	2298.9	1675.9	343.4	256.8
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°	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9	6645.9
2.5°	6648.9	6620.0	6597.2	6554.7	6507.6	6462.0	6421.0	6369.3	6354.1	6340.5	6361.7
5°	6670.2	6641.3	6557.7	6427.1	6282.7	6147.5	6012.3	5896.8	5825.4	5785.9	5808.7
7.5°	6702.1	6661.1	6487.8	6247.8	5988.0	5750.9	5506.3	5310.3	5166.0	5097.6	5117.3
10°	6730.9	6651.9	6369.3	6009.2	5629.4	5276.9	4890.9	4571.9	4334.8	4210.3	4240.6
12.5°	6743.1	6617.0	6203.7	5711.4	5190.3	4673.7	4105.4	3628.3	3288.0	3163.4	3137.6
15°	6755.3	6577.5	6021.4	5372.6	4660.0	3929.2	3133.0	2561.7	2279.1	2216.8	2203.1
17.5°	6758.3	6509.1	5814.7	5004.9	4038.6	3043.4	2142.4	1779.2	1780.7	1881.0	1893.2
20°	6726.4	6407.3	5564.0	4547.6	3294.1	2104.4	1470.8	1408.5	1637.9	1888.6	1919.0
22.5°	6653.5	6272.1	5279.9	4014.3	2441.7	1385.7	1138.0	1206.4	1502.7	1809.6	1844.6
25°	6560.8	6108.0	4944.1	3395.9	1616.6	990.6	954.2	1037.8	1238.3	1443.4	1463.2
27.5°	6434.7	5913.5	4567.3	2687.8	1049.9	815.9	840.2	896.4	978.5	1069.7	1078.8
30°	6272.1	5681.0	4164.7	1960.0	793.1	733.9	768.8	799.2	834.2	885.8	890.4
32.5°	6085.2	5457.7	3751.4	1353.8	703.5	691.3	718.7	733.9	761.2	793.1	796.2
35°	5928.7	5245.0	3322.9	957.2	665.5	659.4	677.7	683.7	709.6	744.5	747.5
37.5°	5839.1	5071.8	2880.8	771.9	639.7	630.6	641.2	641.2	677.7	729.3	736.9
40°	5845.1	4976.0	2438.6	697.4	618.4	606.2	607.8	607.8	654.9	711.1	715.6
42.5°	6010.7	5000.3	2046.6	668.5	601.7	588.0	580.4	585.0	624.5	660.9	664.0
45°	6399.7	5172.0	1678.9	650.3	585.0	580.4	563.7	562.2	577.4	594.1	594.1
47.5°	7037.9	5510.9	1429.8	638.1	571.3	569.8	550.0	530.3	528.8	534.8	534.8
50°	8075.6	6094.3	1262.6	624.5	562.2	550.0	527.2	496.8	486.2	490.8	490.8
52.5°	9631.5	7135.1	1198.8	606.2	542.4	522.7	496.8	466.5	457.3	458.9	458.9
55°	11672.0	8733.5	1189.7	585.0	521.2	489.2	468.0	445.2	434.5	437.6	437.6
57.5°	14165.4	10944.2	1352.3	551.5	492.3	455.8	443.7	428.5	420.9	425.4	423.9
60°	17196.6	13837.2	2005.6	516.6	463.4	425.4	425.4	413.3	407.2	411.8	410.2
62.5°	20688.2	17160.1	2820.0	490.8	433.0	401.1	407.2	401.1	395.0	398.1	396.6
65°	23784.7	19325.3	2640.7	471.0	402.6	378.3	389.0	385.9	381.4	384.4	382.9
67.5°	23874.3	18523.0	1482.9	449.7	373.8	355.5	370.7	369.2	366.2	369.2	367.7
70°	21306.6	15640.7	835.7	410.2	343.4	328.2	349.5	347.9	344.9	351.0	349.5
72.5°	17070.5	11349.9	610.8	361.6	313.0	299.3	323.6	322.1	322.1	331.2	326.7
75°	9822.9	5840.6	487.7	310.0	281.1	270.5	291.7	293.2	296.3	308.4	299.3
77.5°	2800.3	1820.2	398.1	262.9	241.6	237.0	258.3	261.3	262.9	276.5	264.4
80°	1040.8	838.7	328.2	220.3	197.5	199.0	218.8	223.4	224.9	238.5	223.4
82.5°	664.0	553.1	265.9	170.2	155.0	153.5	177.8	183.8	183.8	185.4	176.3
85°	387.4	331.2	200.6	123.1	109.4	104.8	132.2	142.8	138.3	135.2	129.1
87.5°	259.8	227.9	123.1	68.4	59.3	56.2	77.5	85.1	82.0	77.5	72.9
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)