

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: P192054

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33829 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

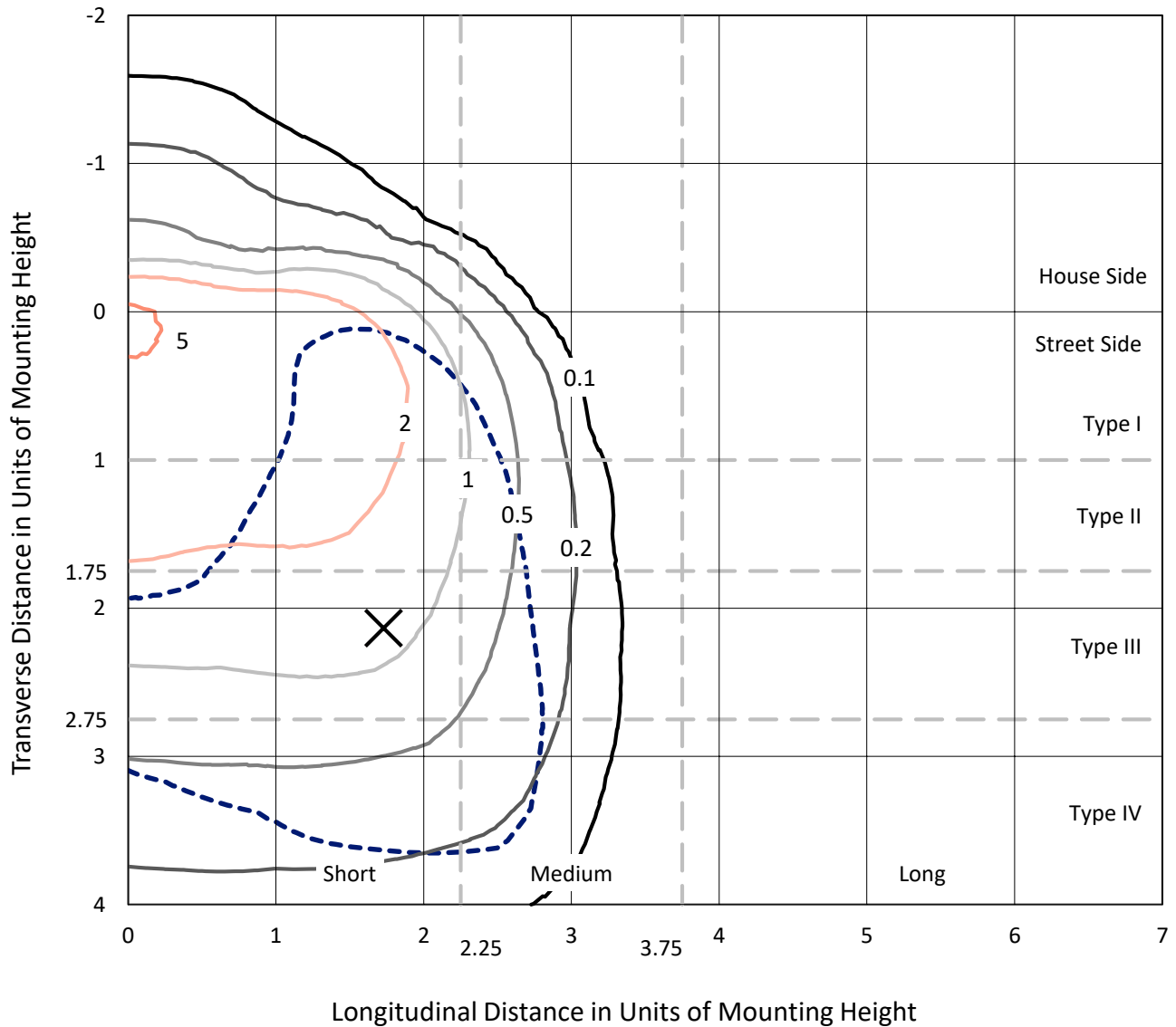
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

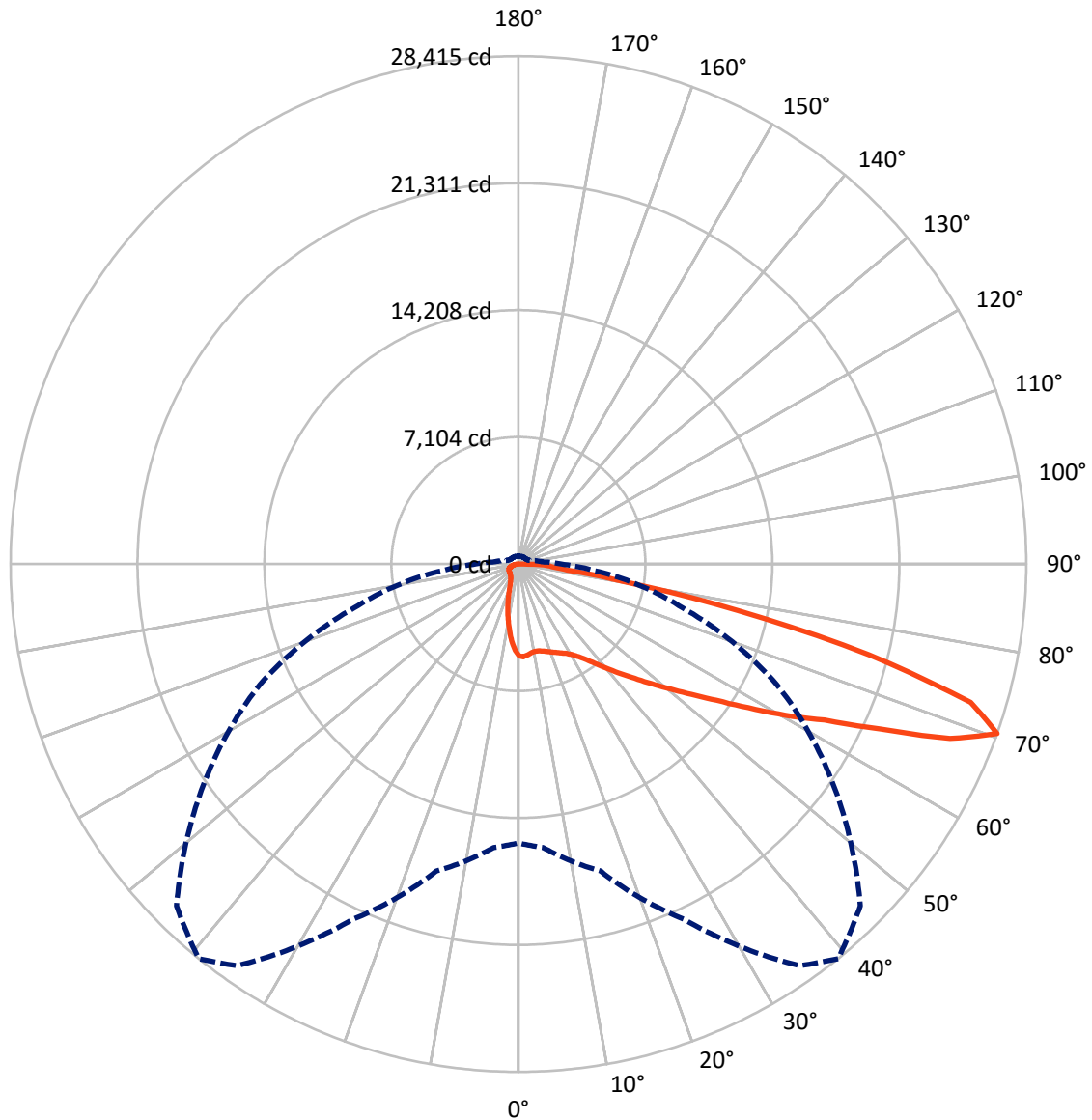
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3847.5	0.0	3847.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	29981.5	0.0	29981.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	33829.0	0.0	33829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.7	1.3
10°-20°	1101.7	3.3
20°-30°	1715.4	5.1
30°-40°	2672.2	7.9
40°-50°	4486.2	13.3
50°-60°	7126.8	21.1
60°-70°	9506.3	28.1
70°-80°	5740.6	17.0
80°-90°	1039.0	3.1
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°	33829.0	100.0
0°-180°	33829.0	100.0

Coefficient of Utilization



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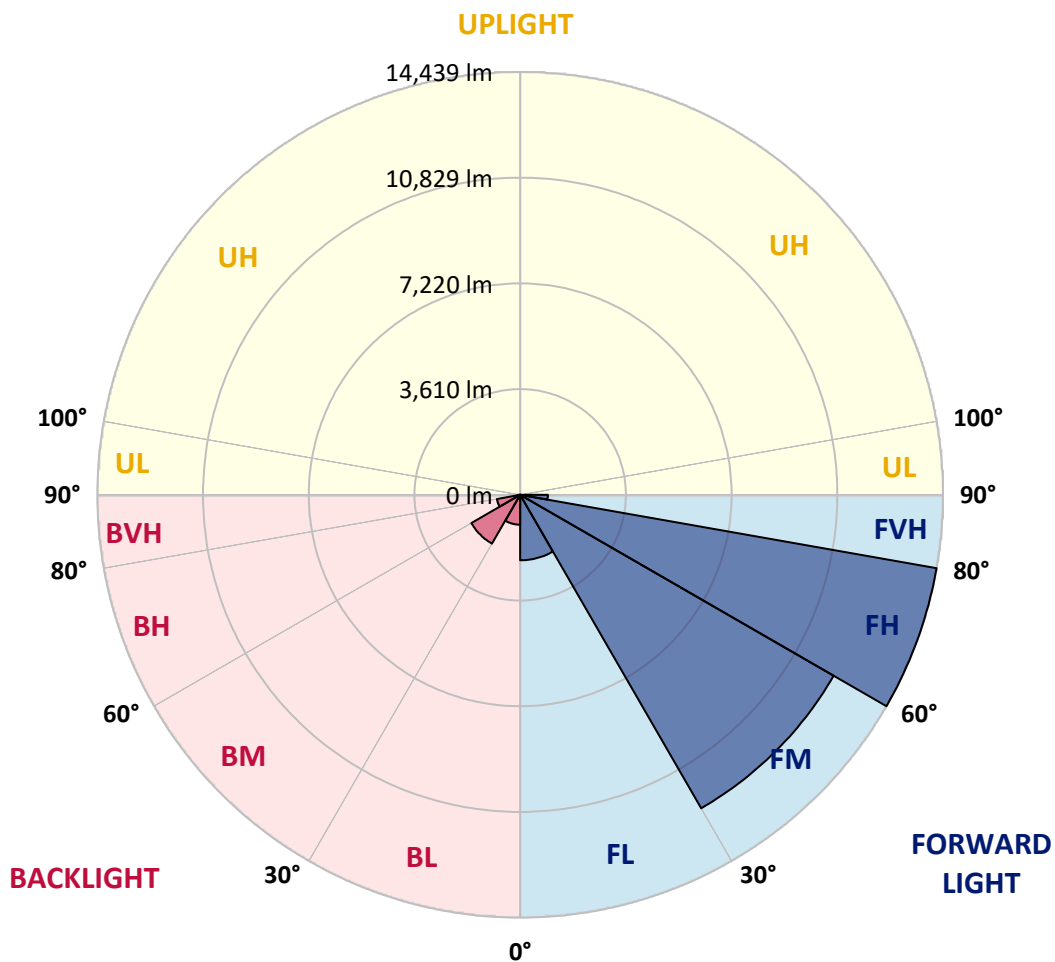
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2237.1	6.6			
FM	(30°-60°)	12359.8	36.5			
FH	(60°-80°)	14439.2	42.7			G5
FVH	(80°-90°)	945.3	2.8			G5
BL	(0°-30°)	1020.7	3.0	B3/2500		
BM	(30°-60°)	1925.4	5.7	B2/2500		
BH	(60°-80°)	807.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	93.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8
2.5°	5235.5	5233.8	5220.0	5209.7	5201.1	5197.7	5204.6	5178.8	5156.4	5128.9	5099.6
5°	5196.0	5194.2	5171.9	5151.2	5130.6	5123.7	5122.0	5075.6	5048.0	5006.8	4951.7
7.5°	5153.0	5144.4	5115.1	5080.7	5044.6	5027.4	5010.2	4950.0	4919.1	4877.8	4814.1
10°	5108.2	5097.9	5070.4	5036.0	5001.6	4975.8	4946.6	4888.1	4855.4	4824.5	4750.5
12.5°	5061.8	5053.2	5046.3	5030.8	5006.8	4984.4	4962.1	4912.2	4877.8	4841.7	4755.7
15°	5054.9	5051.5	5067.0	5077.3	5063.5	5049.8	5025.7	4982.7	4946.6	4910.5	4798.7
17.5°	5110.0	5108.2	5147.8	5175.3	5168.4	5144.4	5111.7	5063.5	5034.3	5003.3	4864.0
20°	5230.4	5239.0	5287.1	5323.2	5288.8	5254.4	5201.1	5134.0	5118.6	5104.8	4931.1
22.5°	5457.4	5466.0	5500.4	5514.2	5424.7	5374.8	5300.9	5214.9	5204.6	5214.9	5011.9
25°	5811.7	5803.1	5797.9	5746.3	5583.0	5505.6	5411.0	5321.5	5326.7	5373.1	5125.4
27.5°	6281.3	6234.8	6162.6	6007.8	5748.1	5662.1	5546.8	5464.3	5497.0	5586.4	5295.7
30°	6768.0	6716.4	6549.6	6296.7	5964.8	5870.2	5741.2	5648.3	5734.3	5875.3	5522.8
32.5°	7218.6	7211.7	6967.5	6642.4	6264.1	6181.5	6052.5	5947.6	6086.9	6301.9	5863.3
35°	7710.5	7726.0	7433.6	7043.2	6668.2	6582.2	6489.4	6410.2	6596.0	6891.8	6356.9
37.5°	8236.8	8267.8	7922.1	7481.8	7129.2	7093.1	7038.0	7003.6	7290.9	7700.2	7046.6
40°	8940.3	8909.3	8429.5	7977.1	7695.1	7693.3	7676.1	7717.4	8195.6	8756.3	7932.4
42.5°	9693.6	9602.5	8967.8	8508.6	8316.0	8374.4	8408.8	8577.4	9284.3	10039.3	9012.5
45°	10505.4	10300.8	9526.8	9071.0	9005.7	9129.5	9246.4	9612.8	10565.6	11499.6	10195.9
47.5°	11153.9	10956.1	10104.7	9661.0	9803.7	9991.2	10216.5	10796.1	12000.1	13008.0	11363.7
50°	11664.7	11535.7	10687.8	10348.9	10682.6	10971.6	11339.6	12136.0	13493.0	14476.8	12445.5
52.5°	12160.0	12063.7	11276.0	11054.1	11714.6	12113.6	12614.1	13573.8	15023.8	15921.6	13355.4
55°	12607.2	12538.4	11908.9	11933.0	12928.9	13448.3	14077.8	15211.2	16692.1	17209.8	14125.9
57.5°	13111.2	13023.5	12631.3	13035.5	14488.8	15163.1	15981.8	17051.6	18257.3	18355.3	14712.4
60°	13618.6	13542.9	13432.8	14308.3	16470.2	17178.8	17954.5	18835.2	19844.8	19244.5	14678.0
62.5°	14058.9	14067.5	14261.8	15644.7	18410.3	19230.7	20176.7	21047.0	21280.9	19399.3	13592.8
65°	14805.3	14941.2	15520.8	17536.6	21141.6	22238.9	23399.9	23260.6	21678.2	17952.8	11265.7
67.5°	15692.8	15931.9	17106.6	20058.0	24593.5	26050.3	26499.2	23761.1	20087.3	14593.8	8030.4
70°	15603.4	15931.9	17791.1	21937.9	27438.3	28415.3	27053.1	21504.5	15950.8	9533.7	4265.5
72.5°	13855.9	14325.5	16396.3	21076.3	26542.2	26456.2	23485.9	16031.6	9476.9	3828.6	1666.6
75°	10560.5	11035.2	12817.1	16650.8	20978.2	20255.8	16664.6	8856.0	3596.4	1520.4	1050.9
77.5°	6074.9	6442.9	7818.9	10211.3	13309.0	12567.7	9275.7	3938.7	1750.9	1059.5	820.4
80°	3391.7	3596.4	4432.3	5180.5	6522.0	5978.5	4150.2	2447.5	1307.2	768.8	632.9
82.5°	2681.4	2863.7	3584.4	3267.9	2979.0	2748.5	2383.8	2179.2	1044.0	485.0	378.4
85°	2342.6	2516.3	3034.0	2573.0	2034.7	1866.1	1936.7	2144.8	811.8	292.4	323.4
87.5°	2170.6	2402.8	2703.8	1983.1	1584.1	1403.5	1787.0	2351.2	261.4	182.3	130.7
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°	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8	5135.8
2.5°	5073.8	5046.3	5001.6	4962.1	4900.1	4867.5	4831.3	4805.5	4784.9	4767.7	4795.2
5°	4917.3	4865.7	4771.1	4669.7	4549.3	4454.7	4375.5	4301.6	4250.0	4215.6	4239.7
7.5°	4769.4	4685.1	4537.2	4353.2	4146.8	3971.4	3826.9	3699.6	3611.9	3555.1	3577.5
10°	4685.1	4580.2	4351.5	4062.5	3758.1	3484.6	3257.6	3061.5	2925.6	2848.2	2860.3
12.5°	4664.5	4528.6	4212.2	3814.8	3398.6	3018.5	2698.6	2426.8	2235.9	2136.2	2139.6
15°	4680.0	4506.3	4081.4	3577.5	3051.2	2571.3	2172.3	1842.1	1620.2	1506.7	1505.0
17.5°	4705.8	4489.1	3943.8	3321.2	2698.6	2141.3	1695.9	1372.5	1176.4	1085.3	1078.4
20°	4733.3	4461.5	3789.0	3044.3	2332.3	1742.3	1327.8	1075.0	951.1	901.3	897.8
22.5°	4772.9	4437.5	3629.1	2751.9	1972.8	1419.0	1092.2	921.9	856.5	830.7	827.3
25°	4836.5	4425.4	3458.8	2447.5	1649.4	1186.8	951.1	846.2	808.4	791.2	789.5
27.5°	4943.1	4442.6	3298.9	2151.7	1386.3	1030.2	872.0	808.4	780.9	765.4	763.7
30°	5080.7	4495.9	3130.3	1871.3	1181.6	923.6	823.9	782.6	760.2	744.7	744.7
32.5°	5309.5	4585.4	2953.2	1628.8	1035.4	849.7	787.7	760.2	741.3	729.3	727.5
35°	5646.6	4753.9	2788.0	1427.6	930.5	796.3	756.8	736.1	722.4	715.5	715.5
37.5°	6136.8	5020.5	2641.8	1283.1	866.9	760.2	727.5	712.1	703.5	703.5	703.5
40°	6795.5	5388.6	2523.2	1186.8	830.7	734.4	705.2	693.1	688.0	689.7	689.7
42.5°	7609.1	5866.7	2444.0	1119.7	813.5	718.9	689.7	679.4	674.2	672.5	674.2
45°	8536.1	6410.2	2435.4	1069.8	796.3	708.6	679.4	669.1	658.7	651.9	651.9
47.5°	9437.4	6962.4	2506.0	1052.6	777.4	696.6	670.8	660.5	645.0	629.5	629.5
50°	10233.7	7431.9	2600.6	1059.5	770.5	679.4	657.0	651.9	627.8	610.6	608.9
52.5°	10866.6	7793.1	2678.0	1080.1	777.4	667.3	639.8	641.5	615.7	596.8	595.1
55°	11374.0	8030.4	2657.3	1100.8	792.9	660.5	624.3	627.8	607.1	588.2	588.2
57.5°	11595.9	7942.7	2428.6	1083.6	804.9	662.2	612.3	626.1	608.9	591.7	591.7
60°	11119.5	7163.6	2000.3	1007.9	789.5	657.0	607.1	632.9	631.2	614.0	612.3
62.5°	9678.2	5768.7	1551.4	896.1	736.1	631.2	593.4	631.2	650.1	645.0	643.3
65°	7459.4	4109.0	1185.0	775.7	663.9	588.2	557.3	591.7	617.5	624.3	622.6
67.5°	4841.7	2518.0	913.3	662.2	583.1	538.3	510.8	526.3	531.5	531.5	528.0
70°	2380.4	1355.3	727.5	557.3	500.5	485.0	469.5	460.9	452.3	445.5	445.5
72.5°	1174.7	885.8	598.5	471.3	431.7	424.8	421.4	411.1	404.2	395.6	392.1
75°	868.6	720.7	509.1	397.3	371.5	364.6	371.5	362.9	361.2	354.3	350.9
77.5°	713.8	614.0	438.6	340.5	318.2	306.2	316.5	318.2	319.9	309.6	306.2
80°	579.6	519.4	366.3	282.1	261.4	252.8	259.7	273.5	276.9	261.4	254.6
82.5°	417.9	424.8	295.8	220.2	203.0	196.1	209.8	227.0	230.5	208.1	203.0
85°	350.9	354.3	227.0	156.5	139.3	129.0	151.4	168.6	180.6	158.2	153.1
87.5°	146.2	208.1	130.7	87.7	77.4	67.1	80.8	89.4	108.4	99.8	98.0
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)