

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: P299982

Luminaire Tested: **GLNA-AF-08-LED-E1-SL3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299982
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: GLNA-AF-08-LED-E1-SL3-7060-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31320 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

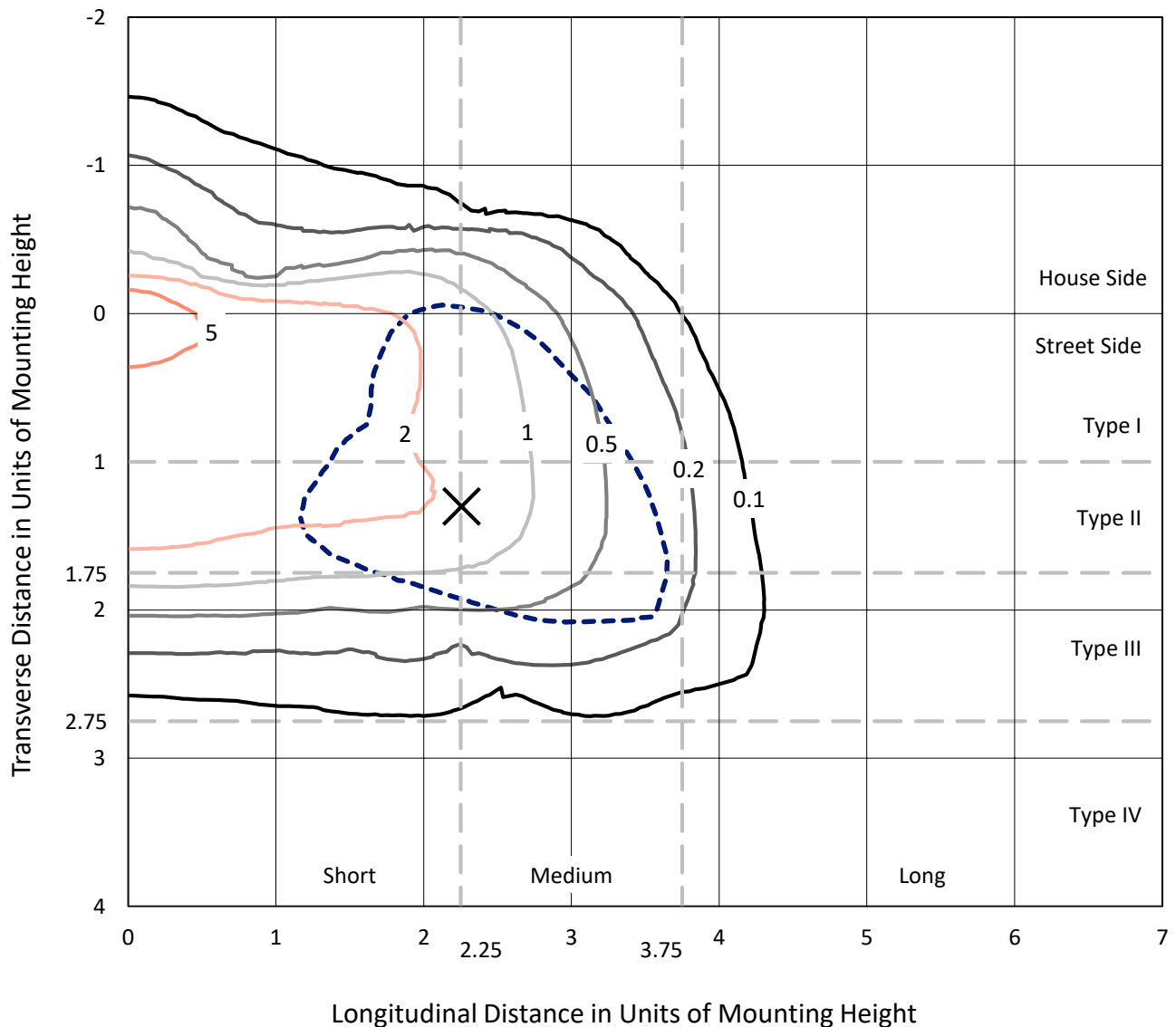
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

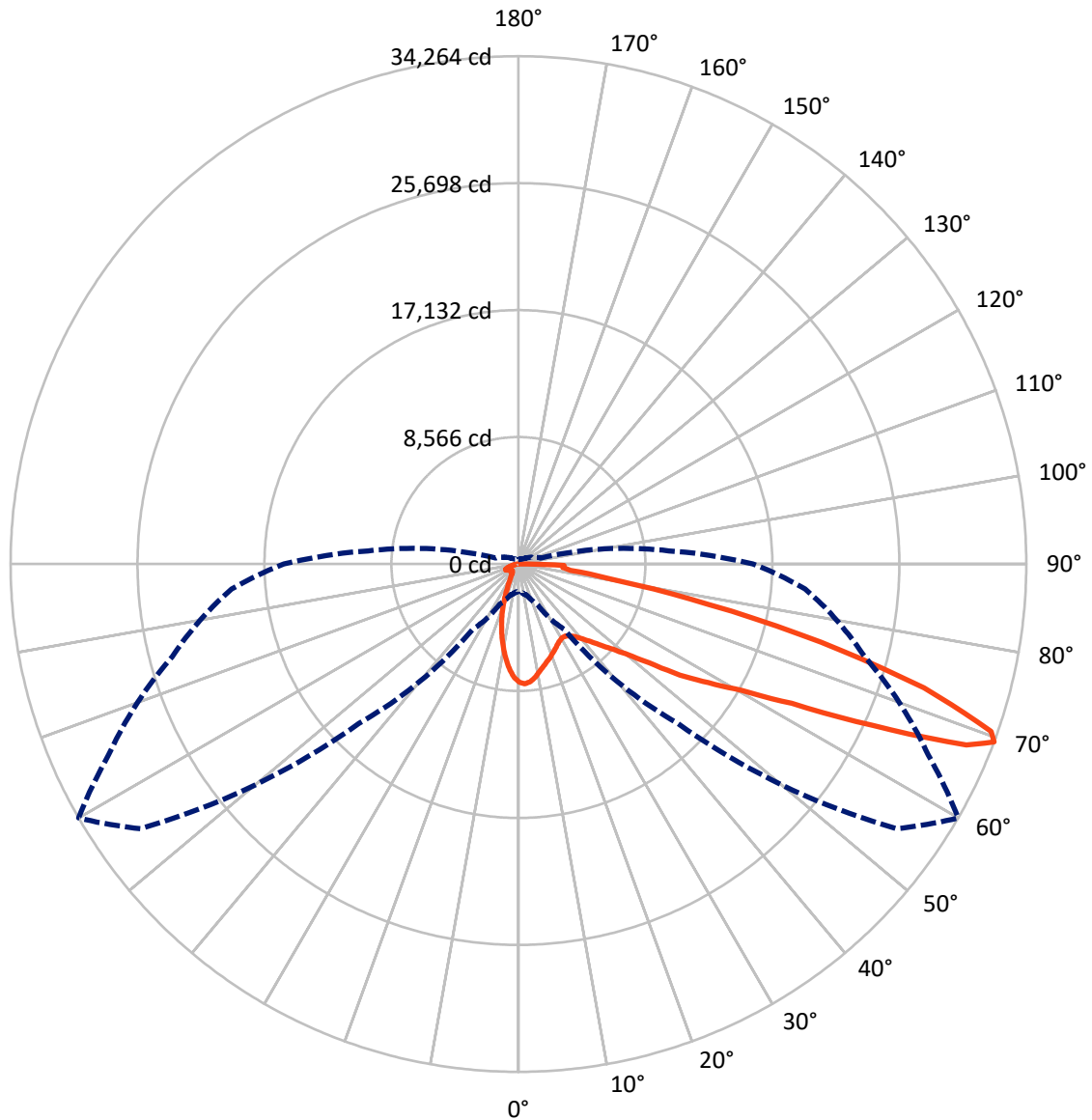
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	4455.9	0.0	4455.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26864.1	0.0	26864.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	31320.0	0.0	31320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.8	2.2
10°-20°	1437.7	4.6
20°-30°	1831.9	5.8
30°-40°	2518.4	8.0
40°-50°	4086.4	13.0
50°-60°	6553.5	20.9
60°-70°	8722.2	27.8
70°-80°	4709.3	15.0
80°-90°	785.8	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°	31320.0	100.0
0°-180°	31320.0	100.0

Coefficient of Utilization



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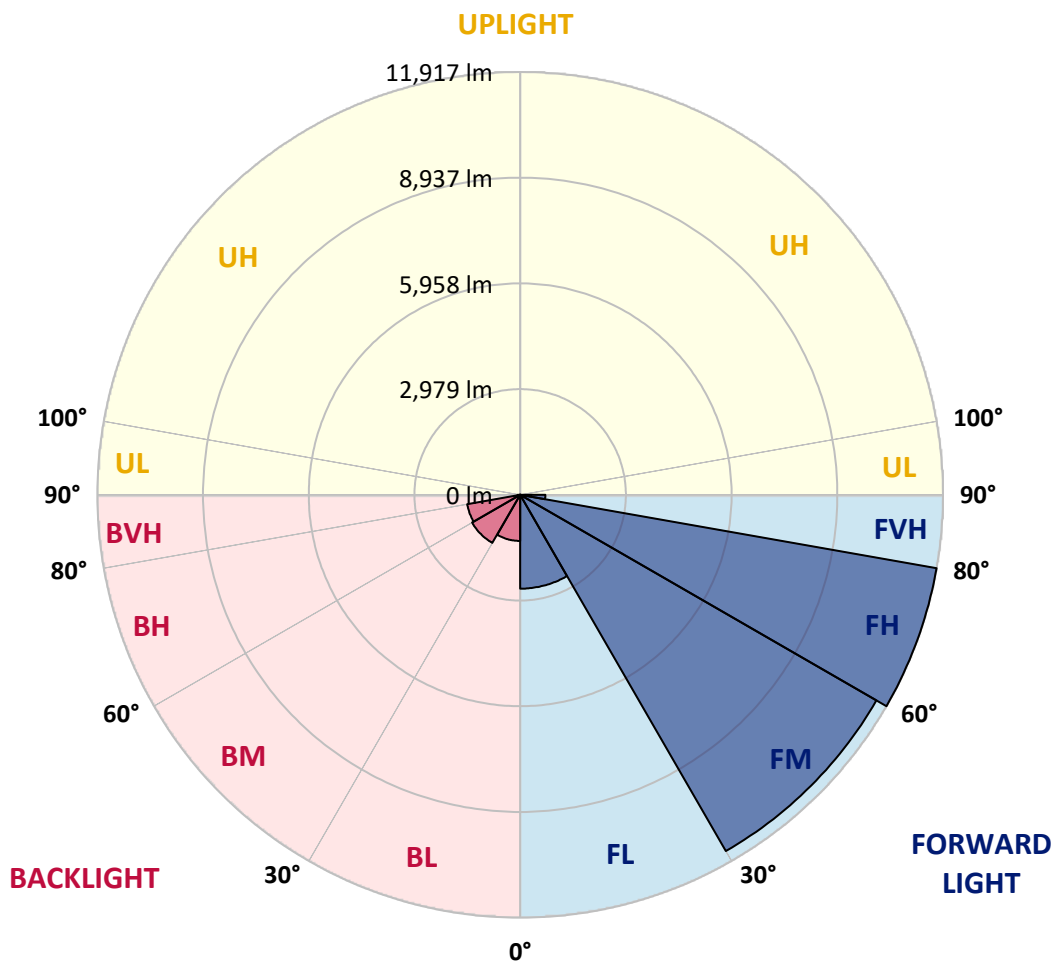
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2644.5	8.4			
FM	(30°-60°)	11592.8	37.0			
FH	(60°-80°)	11916.7	38.0			G4/12000
FVH	(80°-90°)	710.1	2.3			G4/750
BL	(0°-30°)	1299.9	4.2	B3/2500		
BM	(30°-60°)	1565.4	5.0	B2/2500		
BH	(60°-80°)	1514.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	75.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8
2.5°	8144.2	8162.4	8154.8	8150.3	8163.9	8142.7	8098.8	8085.2	8064.0	8014.1	7929.4
5°	7838.6	7893.1	7890.0	7930.9	7999.0	8017.1	7997.4	8000.5	7961.1	7899.1	7758.4
7.5°	7310.6	7333.3	7345.4	7434.6	7558.7	7658.5	7743.3	7770.5	7752.4	7699.4	7517.8
10°	6765.9	6784.1	6812.8	6917.2	7074.6	7212.2	7372.6	7464.9	7504.2	7495.2	7292.4
12.5°	6298.4	6316.6	6354.4	6472.4	6660.0	6829.5	7062.4	7177.4	7271.2	7327.2	7109.3
15°	5879.3	5918.7	5955.0	6091.1	6301.4	6523.8	6787.1	6932.3	7077.6	7203.2	6947.5
17.5°	5552.5	5591.9	5613.0	5737.1	5961.0	6233.4	6542.0	6713.0	6894.5	7100.3	6787.1
20°	5363.4	5381.6	5372.5	5442.1	5643.3	5932.3	6298.4	6496.6	6716.0	7003.4	6626.7
22.5°	5310.5	5312.0	5278.7	5271.1	5401.2	5644.8	6038.2	6278.7	6548.0	6939.9	6489.0
25°	5439.1	5434.5	5343.7	5269.6	5283.2	5425.4	5787.0	6066.9	6407.3	6926.3	6383.1
27.5°	5725.0	5738.6	5604.0	5464.8	5327.1	5322.6	5596.4	5891.4	6292.4	6988.3	6337.7
30°	6125.9	6148.6	6004.9	5827.9	5569.2	5355.8	5522.3	5787.0	6221.2	7116.9	6330.2
32.5°	6564.7	6588.9	6480.0	6293.9	5955.0	5561.6	5573.7	5796.1	6218.2	7297.0	6381.6
35°	7032.2	7059.4	7003.4	6846.1	6469.4	5941.4	5770.4	5942.9	6316.6	7572.3	6519.3
37.5°	7554.2	7596.5	7611.6	7461.9	7059.4	6442.1	6092.6	6221.2	6539.0	7955.1	6772.0
40°	8306.1	8365.1	8360.6	8145.7	7735.7	7118.4	6590.4	6623.7	6885.4	8466.5	7175.9
42.5°	9746.4	9758.5	9381.8	8914.3	8480.1	7829.5	7177.4	7150.2	7363.5	9114.0	7770.5
45°	11578.6	11528.7	10690.5	9787.3	9257.7	8646.5	7941.5	7808.3	7970.2	9903.8	8514.9
47.5°	13099.1	12984.1	11925.1	10678.4	10080.8	9534.6	8838.6	8605.7	8694.9	10799.4	9477.1
50°	13627.1	13540.9	12663.4	11419.7	10859.9	10617.9	9943.1	9613.3	9637.5	11867.6	10604.3
52.5°	13513.7	13501.6	12916.0	11908.4	11589.2	11755.6	11507.5	11061.2	10825.2	13053.7	11820.7
55°	13245.9	13271.6	13059.8	12477.3	12422.8	12854.0	13551.5	13221.7	12487.9	14250.5	13077.9
57.5°	12315.4	12382.0	12848.0	13192.9	13764.8	14406.3	15197.6	15103.8	14277.7	15544.0	14572.7
60°	9921.9	10076.2	11325.9	13053.7	15146.1	17152.3	17506.3	17288.5	16123.5	17149.3	16547.1
62.5°	6952.0	7112.4	8598.1	11301.7	14919.2	20253.9	21633.7	20694.1	18774.2	19514.0	19102.5
65°	3721.9	3799.0	4933.7	7841.6	12595.3	20893.8	27665.8	26236.1	22971.1	22429.5	21288.7
67.5°	2053.1	2095.4	2529.7	3959.4	8067.0	18399.0	31508.7	32588.9	28216.5	24370.6	20890.8
69°	1856.4	1895.7	2180.2	2998.7	5398.2	15212.7	31133.5	34263.8	30516.2	24178.4	19420.2
70°	1815.5	1851.8	2107.5	2764.2	4369.4	12539.3	29876.2	33835.6	31063.9	23490.0	18137.2
72.5°	1634.0	1673.3	1921.4	2482.7	3734.0	6251.5	23665.6	28608.4	28202.9	20367.3	13757.2
75°	1523.5	1559.9	1980.5	2431.3	3575.1	3956.4	15601.5	21084.5	20731.9	14247.4	7418.0
77.5°	652.1	649.1	918.4	2057.6	3628.1	3830.8	8383.3	13171.7	12017.4	6089.6	2130.2
80°	435.7	428.2	435.7	605.2	3327.0	3852.0	4392.1	6685.7	5050.2	1552.3	1050.0
82.5°	375.2	369.2	382.8	369.2	1169.5	4396.6	3734.0	3555.4	2401.1	882.0	520.5
85°	252.7	242.1	329.8	331.3	552.2	3906.4	4206.0	3003.2	1942.6	523.5	257.2
87.5°	121.0	118.0	192.1	234.5	323.8	1587.1	4718.9	3077.3	1959.3	267.8	122.5
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°	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8	7980.8
2.5°	7903.6	7841.6	7781.1	7708.5	7632.8	7548.1	7505.7	7463.4	7452.8	7440.7	7398.3
5°	7685.8	7598.0	7446.7	7280.3	7104.8	6933.8	6803.7	6722.0	6660.0	6628.2	6572.3
7.5°	7404.4	7275.8	7011.0	6723.5	6428.5	6159.2	5926.2	5779.5	5640.3	5575.2	5501.1
10°	7136.6	6944.4	6532.9	6109.3	5685.7	5278.7	4895.9	4625.1	4384.5	4249.9	4154.6
12.5°	6906.6	6643.4	6073.0	5499.6	4918.6	4339.1	3765.7	3314.9	2938.1	2740.0	2638.6
15°	6682.7	6365.0	5635.7	4908.0	4162.1	3373.9	2620.4	2109.1	1797.4	1673.3	1631.0
17.5°	6480.0	6073.0	5197.0	4311.9	3381.4	2428.3	1761.1	1479.7	1360.1	1319.3	1305.7
20°	6260.6	5778.0	4741.6	3688.6	2567.5	1697.5	1375.3	1251.2	1202.8	1190.7	1184.6
22.5°	6048.8	5487.5	4305.9	3021.4	1844.3	1310.2	1181.6	1130.2	1122.6	1133.2	1133.2
25°	5868.7	5227.2	3835.3	2323.9	1354.1	1102.9	1057.6	1045.4	1074.2	1113.5	1121.1
27.5°	5734.1	5013.9	3334.5	1715.7	1078.7	959.2	957.7	977.4	1048.5	1124.1	1139.3
30°	5641.8	4811.2	2799.0	1237.6	904.7	844.2	868.4	910.8	1015.2	1122.6	1151.4
32.5°	5594.9	4661.4	2240.7	957.7	774.6	741.3	782.2	833.6	936.5	1036.4	1074.2
35°	5631.2	4551.0	1714.2	798.8	683.9	658.1	700.5	750.4	810.9	853.3	882.0
37.5°	5767.4	4507.1	1293.6	715.6	621.8	597.6	630.9	659.6	683.9	696.0	709.6
40°	6060.9	4554.0	1036.4	673.3	587.0	556.8	570.4	581.0	596.1	608.2	614.3
42.5°	6493.6	4694.7	929.0	656.6	568.9	525.0	522.0	526.5	546.2	568.9	573.4
45°	7098.8	4942.8	921.4	667.2	559.8	499.3	485.7	491.7	522.0	556.8	562.8
47.5°	7871.9	5321.0	981.9	699.0	567.4	485.7	463.0	470.5	508.4	555.3	562.8
50°	8808.4	5849.1	1083.3	745.9	600.6	488.7	455.4	459.9	499.3	550.7	558.3
52.5°	9914.4	6598.0	1193.7	791.3	635.4	508.4	461.4	450.9	487.2	532.6	541.6
55°	11144.4	7558.7	1307.2	832.1	653.6	532.6	473.6	438.8	464.5	502.3	509.9
57.5°	12654.3	8902.2	1503.9	871.5	665.7	549.2	485.7	426.7	435.7	463.0	469.0
60°	14698.3	10802.5	1850.3	936.5	692.9	555.3	484.1	416.1	407.0	422.1	425.1
62.5°	17147.8	12866.1	2139.3	1018.2	738.3	559.8	475.1	408.5	382.8	382.8	385.8
65°	18601.7	13418.3	1978.9	1086.3	776.1	555.3	464.5	400.9	364.6	348.0	349.5
67.5°	17368.7	11801.0	1696.0	1099.9	774.6	534.1	447.8	387.3	346.5	320.7	319.2
69°	15823.9	10182.1	1568.9	1063.6	738.3	506.8	426.7	372.2	332.8	305.6	304.1
70°	14578.8	9194.2	1485.7	1024.3	699.0	487.2	410.0	358.6	322.3	296.5	293.5
72.5°	10599.7	6024.6	1269.4	880.5	576.4	408.5	354.0	314.7	287.5	272.3	269.3
75°	5296.8	2873.1	1030.3	714.1	441.8	326.8	290.5	263.3	249.6	246.6	245.1
77.5°	1739.9	1316.3	736.8	532.6	328.3	255.7	234.5	214.8	211.8	220.9	217.9
80°	956.2	765.6	467.5	352.5	223.9	187.6	184.6	174.0	178.5	193.7	190.6
82.5°	487.2	397.9	289.0	211.8	151.3	134.7	146.8	140.7	146.8	160.4	158.9
85°	240.6	217.9	183.1	128.6	99.9	86.2	104.4	108.9	112.0	122.5	122.5
87.5°	139.2	128.6	96.8	60.5	49.9	45.4	60.5	59.0	69.6	75.6	74.1
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)