

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: P191887

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191887
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-09-LED-E1-SL2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 42118 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

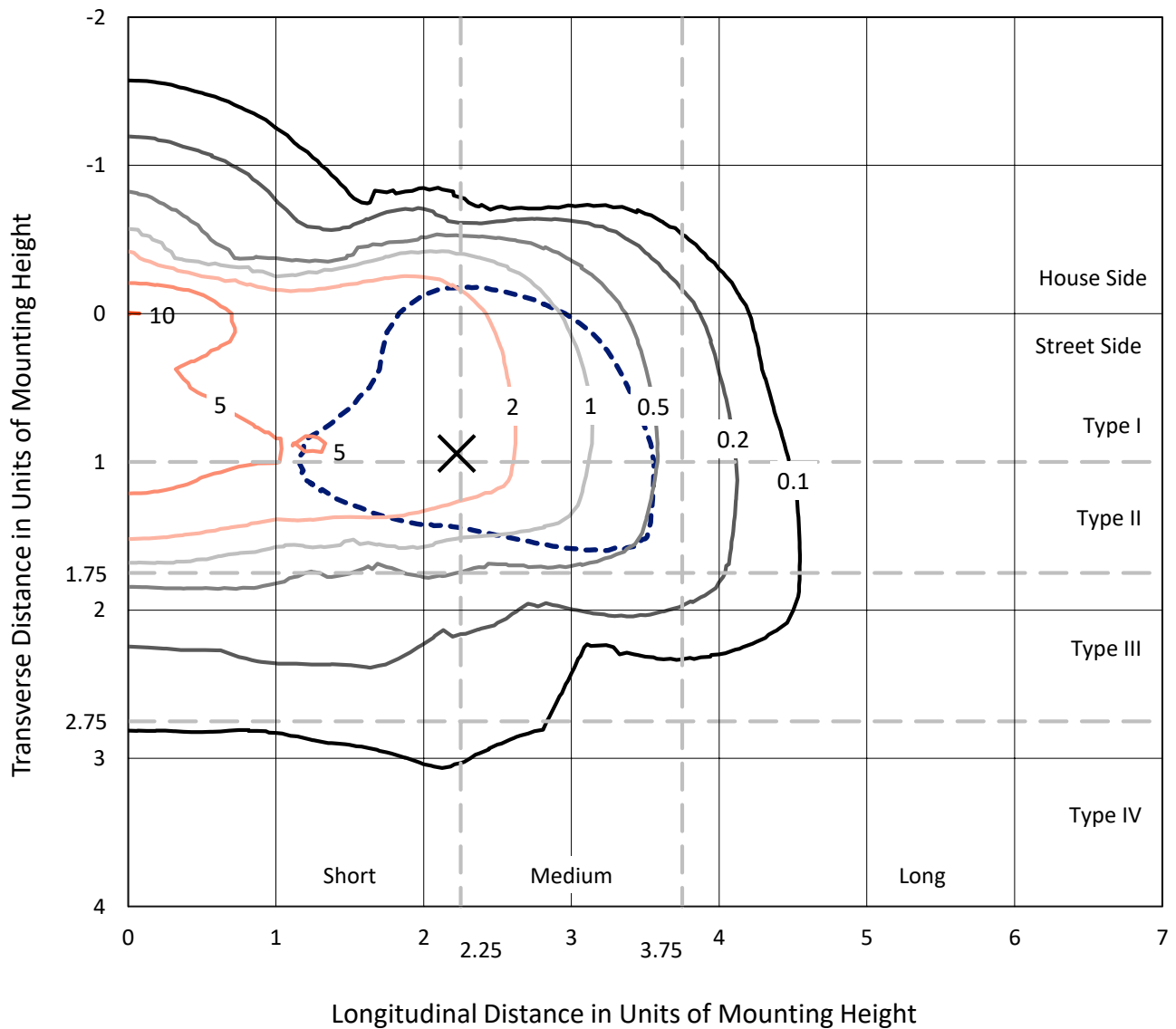
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

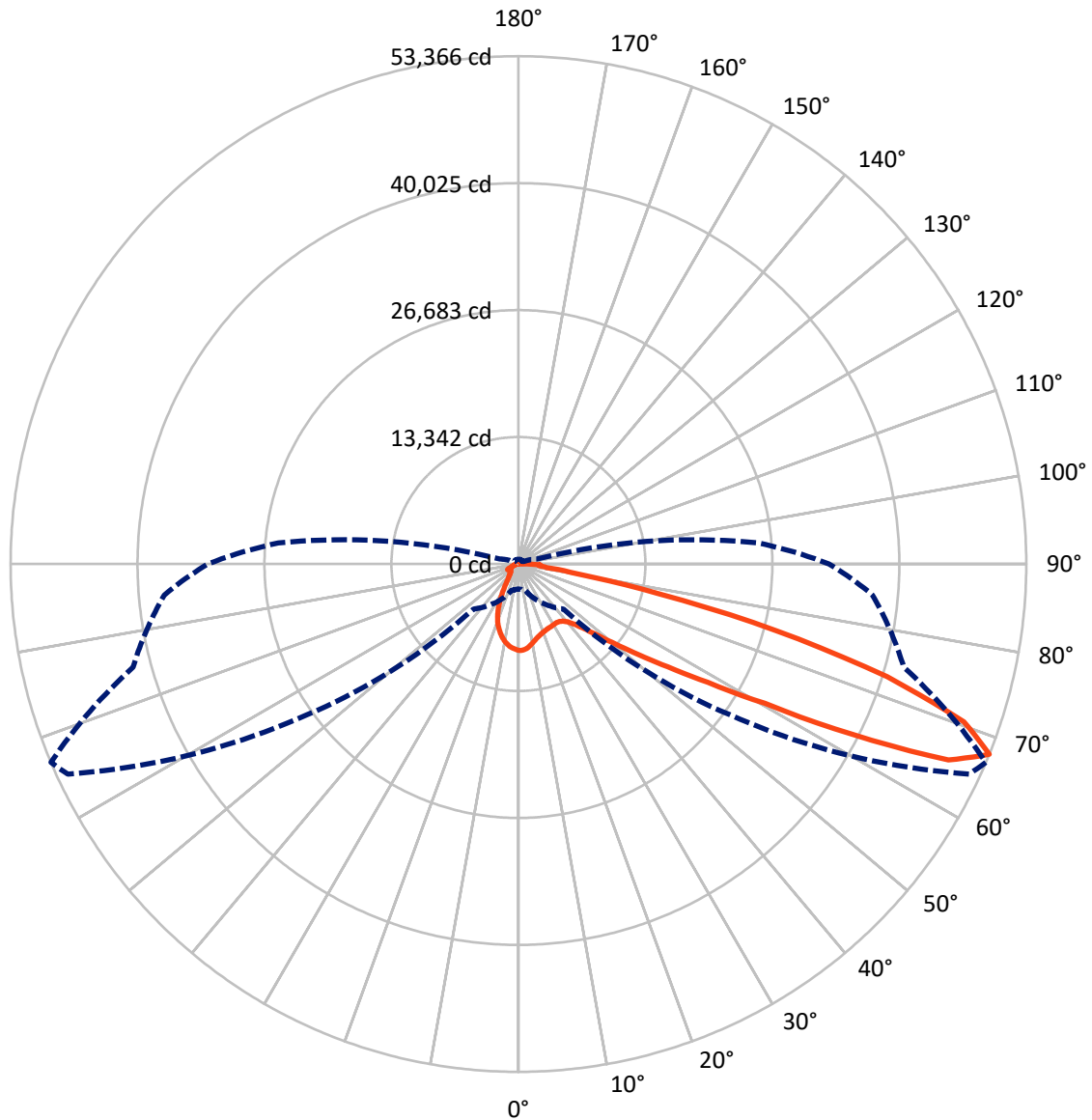
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	6978.5	0.0	6978.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	35139.5	0.0	35139.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	42118.0	0.0	42118.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.1	1.8
10°-20°	1793.4	4.3
20°-30°	2431.0	5.8
30°-40°	3455.9	8.2
40°-50°	5781.8	13.7
50°-60°	9146.7	21.7
60°-70°	11652.0	27.7
70°-80°	6103.3	14.5
80°-90°	978.9	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°	42118.0	100.0
0°-180°	42118.0	100.0



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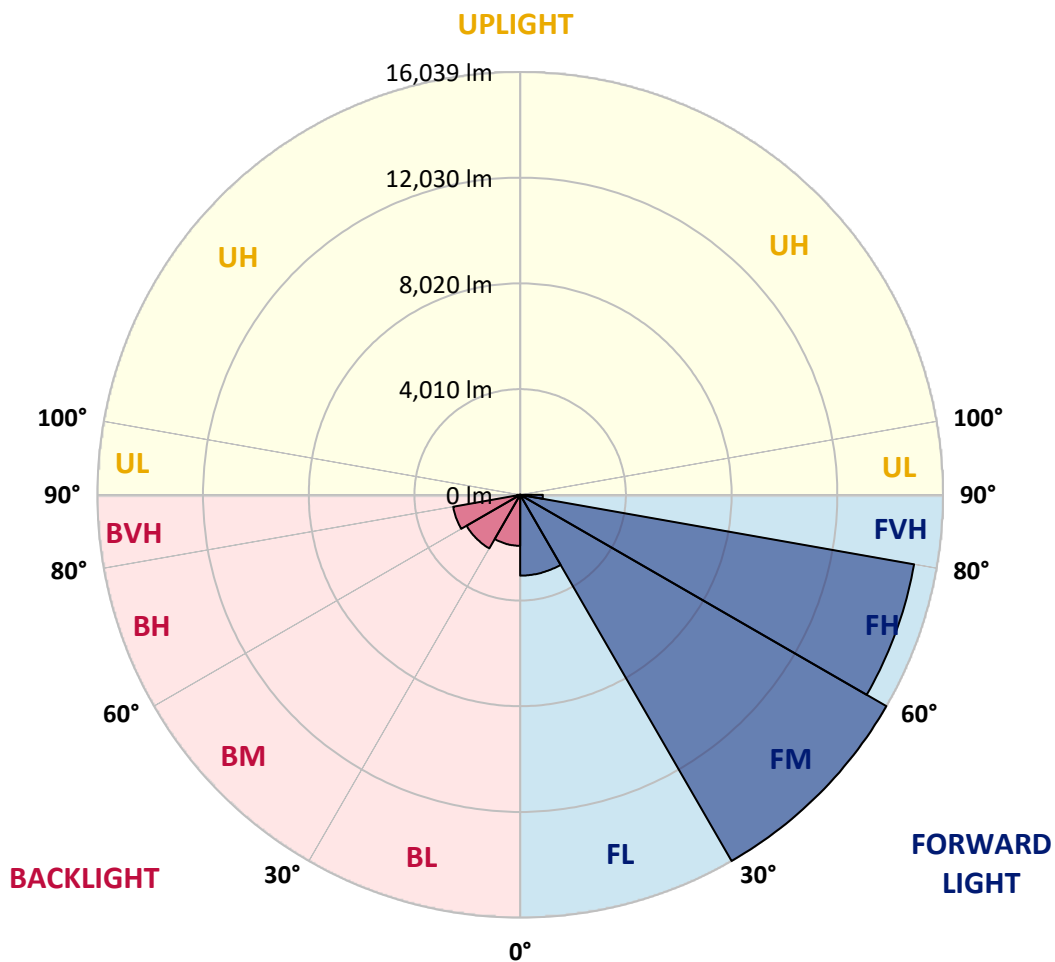
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3065.2	7.3			
FM	(30°-60°)	16039.4	38.1			
FH	(60°-80°)	15174.2	36.0			G5
FVH	(80°-90°)	860.7	2.0			G5
BL	(0°-30°)	1934.2	4.6	B3/2500		
BM	(30°-60°)	2345.0	5.6	B2/2500		
BH	(60°-80°)	2581.1	6.1	B4/5000		G4/5000
BVH	(80°-90°)	118.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7
2.5°	8710.9	8725.4	8771.1	8800.2	8931.1	8987.1	9026.6	9066.1	9072.3	9091.0	9072.3
5°	7797.0	7828.2	7913.3	8008.9	8262.3	8461.7	8671.4	8889.5	8929.0	9070.2	9109.7
7.5°	7088.8	7080.5	7151.1	7265.3	7524.9	7801.2	8168.8	8602.9	8688.0	9005.8	9159.5
10°	6571.6	6565.4	6640.1	6758.5	7005.7	7267.4	7682.8	8276.8	8397.3	8904.1	9207.3
12.5°	6189.4	6191.5	6266.3	6397.1	6648.4	6912.2	7333.8	7961.1	8114.8	8785.7	9257.1
15°	5936.0	5952.7	6012.9	6152.0	6397.1	6660.9	7074.2	7724.3	7896.7	8692.2	9313.2
17.5°	5850.9	5877.9	5898.6	6000.4	6210.2	6474.0	6879.0	7549.9	7732.6	8627.8	9363.1
20°	5929.8	5961.0	5921.5	5956.8	6089.7	6322.4	6725.3	7412.8	7599.7	8555.1	9369.3
22.5°	6268.4	6297.4	6181.1	6079.3	6071.0	6212.3	6598.6	7304.8	7497.9	8501.1	9371.4
25°	6864.4	6883.1	6687.9	6451.1	6220.6	6172.8	6509.3	7230.0	7435.6	8453.3	9331.9
27.5°	7595.5	7610.1	7385.8	7036.8	6573.7	6266.3	6478.1	7186.4	7400.3	8411.8	9265.4
30°	8484.5	8553.0	8251.9	7811.6	7136.5	6542.5	6540.4	7163.5	7360.8	8341.2	9134.6
32.5°	9394.2	9423.3	9215.6	8769.0	7894.6	7028.5	6714.9	7180.2	7350.5	8256.0	8968.4
35°	10316.4	10353.8	10218.8	9859.5	8931.1	7740.9	7055.5	7277.8	7414.9	8227.0	8852.1
37.5°	11510.7	11560.5	11373.6	10958.2	10191.8	8706.7	7622.5	7522.9	7612.2	8310.0	8816.8
40°	13398.7	13375.8	12829.6	12210.6	11570.9	9942.5	8432.6	7938.3	7990.2	8578.0	8924.8
42.5°	15596.1	15540.0	14599.2	13627.1	13087.1	11438.0	9504.3	8659.0	8648.6	9105.5	9304.9
45°	17349.1	17303.4	16456.0	15257.6	14825.5	13141.1	10889.7	9732.8	9655.9	9942.5	10006.9
47.5°	18298.3	18300.3	17812.3	16834.0	16823.6	15305.3	12669.6	11286.4	11153.4	11288.4	11219.9
50°	17966.0	18009.6	17957.6	17646.1	18647.2	18142.5	14993.8	13452.7	13184.7	13317.7	13053.9
52.5°	16358.4	16414.4	16721.8	17199.5	19413.6	21571.6	18408.4	16144.4	15832.9	15785.1	15492.3
55°	13508.7	13577.3	14204.5	15502.6	18776.0	23875.0	23796.1	19575.6	19079.2	18628.5	18503.9
57.5°	9311.1	9425.4	10434.8	12362.2	16713.5	24570.8	30211.9	24466.9	23457.5	21883.2	21912.2
60°	5248.6	5381.5	6571.6	8322.5	12551.2	23814.8	35092.8	31875.5	29744.6	25694.4	25910.4
62.5°	3337.7	3481.0	4384.5	5782.3	7531.2	19743.9	37092.9	42175.3	39469.0	30392.6	30604.4
65°	2702.2	2764.5	3190.3	4772.9	5468.7	11894.9	35574.7	50659.8	49650.4	36355.6	35367.0
67.5°	2637.8	2658.5	2878.7	4006.5	5244.4	6685.8	28375.8	52246.7	53366.2	41924.0	37350.5
70°	2606.6	2679.3	3244.3	3823.7	5022.2	5639.0	17052.1	47897.4	49665.0	43380.0	34710.6
72.5°	1264.9	1260.7	1632.5	3458.2	5657.7	5848.8	8760.7	38754.5	40528.3	37583.1	28523.3
75°	1019.8	932.6	891.0	1267.0	5439.6	6039.9	5582.9	26666.5	27950.0	25198.0	17533.9
77.5°	967.9	864.0	791.3	793.4	2299.2	6405.4	4729.3	14759.1	15132.9	11381.9	4804.1
80°	801.7	706.2	654.3	737.3	1113.3	6100.1	5113.5	6679.6	6129.2	2795.6	1599.3
82.5°	556.6	506.8	492.2	618.9	891.0	4347.1	5946.4	3589.0	3009.6	1399.9	986.6
85°	355.2	303.2	336.5	450.7	693.7	2006.4	6125.0	2797.7	2224.5	889.0	556.6
87.5°	164.1	132.9	166.2	249.2	452.8	691.6	5828.0	3142.5	2290.9	469.4	351.0
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°	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7	9084.7
2.5°	9088.9	9049.4	9018.3	8960.1	8895.7	8833.4	8777.4	8706.7	8686.0	8667.3	8696.4
5°	9118.0	9078.5	8964.3	8785.7	8588.3	8403.5	8218.6	8060.8	7963.2	7909.2	7940.3
7.5°	9161.6	9105.5	8868.7	8540.6	8185.4	7861.4	7527.0	7259.1	7061.8	6968.3	6995.3
10°	9201.1	9093.1	8706.7	8214.5	7695.2	7213.4	6685.8	6249.7	5925.6	5755.3	5796.9
12.5°	9217.7	9045.3	8480.3	7807.4	7095.0	6388.8	5612.0	4959.8	4494.6	4324.3	4289.0
15°	9234.3	8991.3	8231.1	7344.2	6370.1	5371.1	4282.8	3501.8	3115.5	3030.3	3011.6
17.5°	9238.4	8897.8	7948.6	6841.6	5520.6	4160.2	2928.6	2432.2	2434.2	2571.3	2587.9
20°	9194.8	8758.7	7605.9	6216.4	4502.9	2876.6	2010.5	1925.4	2239.0	2581.7	2623.2
22.5°	9095.1	8573.8	7217.5	5487.4	3337.7	1894.2	1555.7	1649.1	2054.1	2473.7	2521.5
25°	8968.4	8349.5	6758.5	4642.1	2209.9	1354.2	1304.3	1418.6	1692.7	1973.1	2000.1
27.5°	8796.0	8083.6	6243.4	3674.2	1435.2	1115.3	1148.6	1225.4	1337.6	1462.2	1474.7
30°	8573.8	7765.9	5693.0	2679.3	1084.2	1003.2	1051.0	1092.5	1140.3	1210.9	1217.1
32.5°	8318.3	7460.5	5128.1	1850.6	961.6	945.0	982.4	1003.2	1040.6	1084.2	1088.3
35°	8104.4	7169.8	4542.4	1308.5	909.7	901.4	926.3	934.6	970.0	1017.7	1021.9
37.5°	7981.9	6933.0	3938.0	1055.1	874.4	862.0	876.5	876.5	926.3	997.0	1007.3
40°	7990.2	6802.1	3333.6	953.3	845.3	828.7	830.8	830.8	895.2	972.0	978.3
42.5°	8216.6	6835.4	2797.7	913.9	822.5	803.8	793.4	799.6	853.6	903.5	907.6
45°	8748.3	7070.1	2295.1	889.0	799.6	793.4	770.6	768.5	789.3	812.1	812.1
47.5°	9620.6	7533.2	1954.4	872.3	780.9	778.9	751.9	724.9	722.8	731.1	731.1
50°	11039.2	8330.8	1726.0	853.6	768.5	751.9	720.7	679.2	664.6	670.9	670.9
52.5°	13166.0	9753.5	1638.7	828.7	741.5	714.5	679.2	637.6	625.2	627.3	627.3
55°	15955.4	11938.5	1626.3	799.6	712.4	668.8	639.7	608.6	594.0	598.2	598.2
57.5°	19363.8	14960.6	1848.5	753.9	672.9	623.1	606.5	585.7	575.3	581.6	579.5
60°	23507.4	18915.1	2741.6	706.2	633.5	581.6	581.6	564.9	556.6	562.9	560.8
62.5°	28280.3	23457.5	3854.9	670.9	591.9	548.3	556.6	548.3	540.0	544.2	542.1
65°	32513.2	26417.2	3609.8	643.9	550.4	517.2	531.7	527.6	521.3	525.5	523.4
67.5°	32635.7	25320.6	2027.1	614.8	510.9	486.0	506.8	504.7	500.6	504.7	502.6
70°	29125.6	21380.5	1142.3	560.8	469.4	448.6	477.7	475.6	471.5	479.8	477.7
72.5°	23335.0	15515.1	834.9	494.3	427.9	409.2	442.4	440.3	440.3	452.8	446.6
75°	13427.7	7983.9	666.7	423.7	384.2	369.7	398.8	400.9	405.0	421.6	409.2
77.5°	3827.9	2488.2	544.2	359.3	330.2	324.0	353.1	357.2	359.3	378.0	361.4
80°	1422.7	1146.5	448.6	301.2	270.0	272.1	299.1	305.3	307.4	326.1	305.3
82.5°	907.6	756.0	363.5	232.6	211.9	209.8	243.0	251.3	251.3	253.4	240.9
85°	529.6	452.8	274.2	168.2	149.5	143.3	180.7	195.2	189.0	184.9	176.5
87.5°	355.2	311.5	168.2	93.5	81.0	76.8	105.9	116.3	112.2	105.9	99.7
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)