

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: P193755

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27884 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 391
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

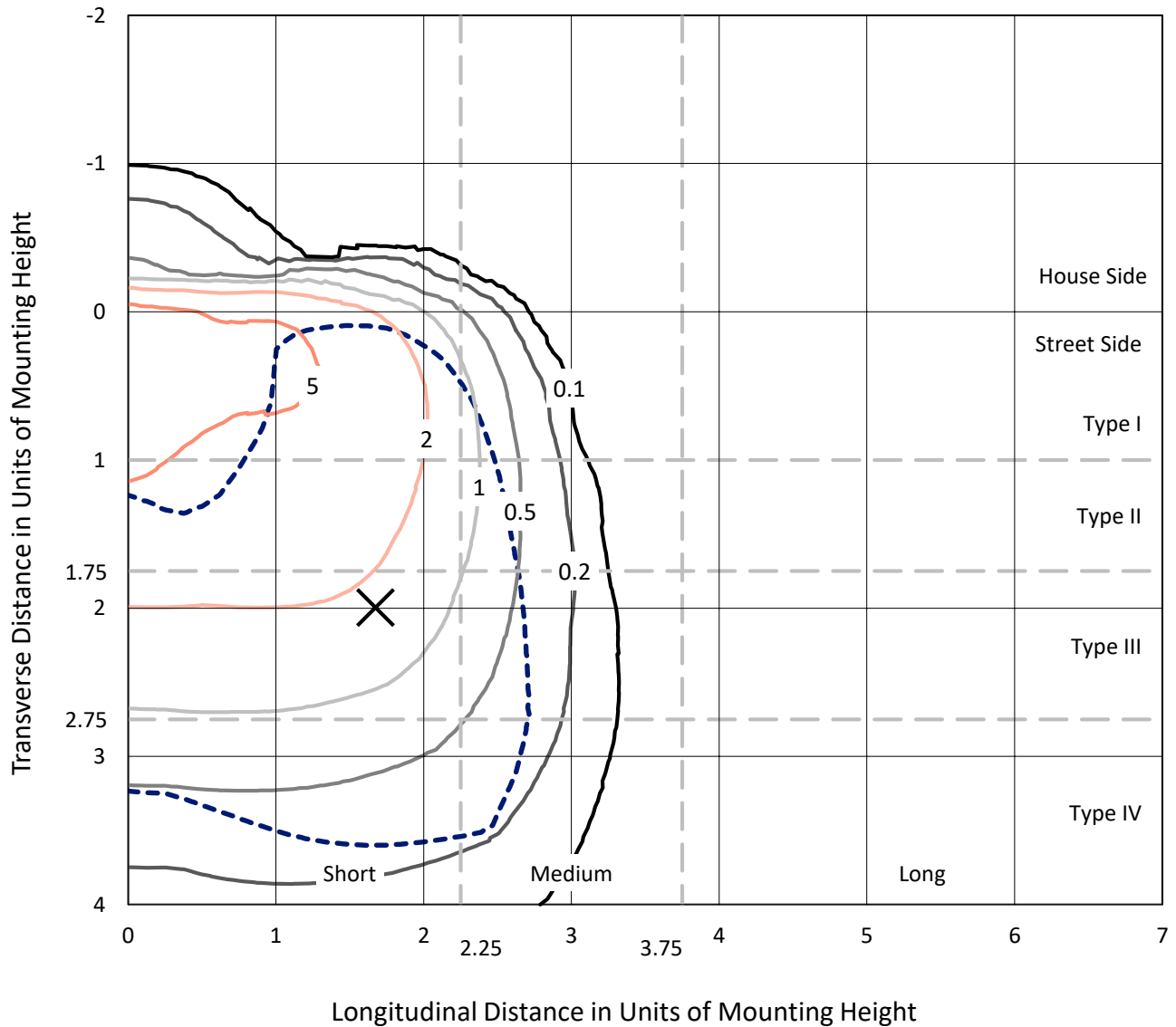


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Iso-Footcandle Lines of Horizontal Illumination

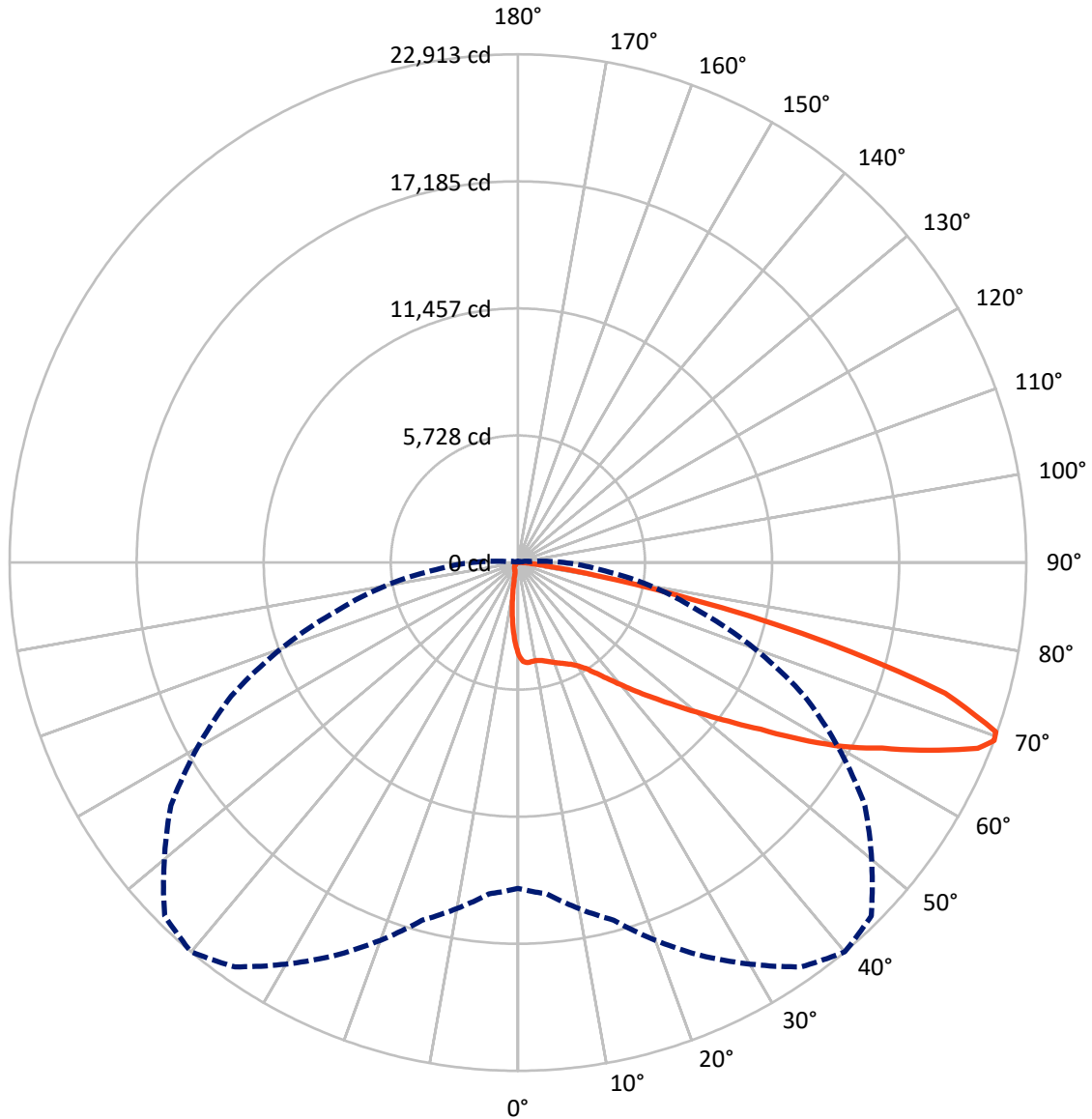
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1631.4	0.0	1631.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	26252.6	0.0	26252.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	27884.0	0.0	27884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.8	1.2
10°-20°	830.7	3.0
20°-30°	1399.1	5.0
30°-40°	2290.4	8.2
40°-50°	3965.8	14.2
50°-60°	6246.5	22.4
60°-70°	8157.7	29.3
70°-80°	4201.6	15.1
80°-90°	454.5	1.6
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°	27884.0	100.0
0°-180°	27884.0	100.0

Coefficient of Utilization



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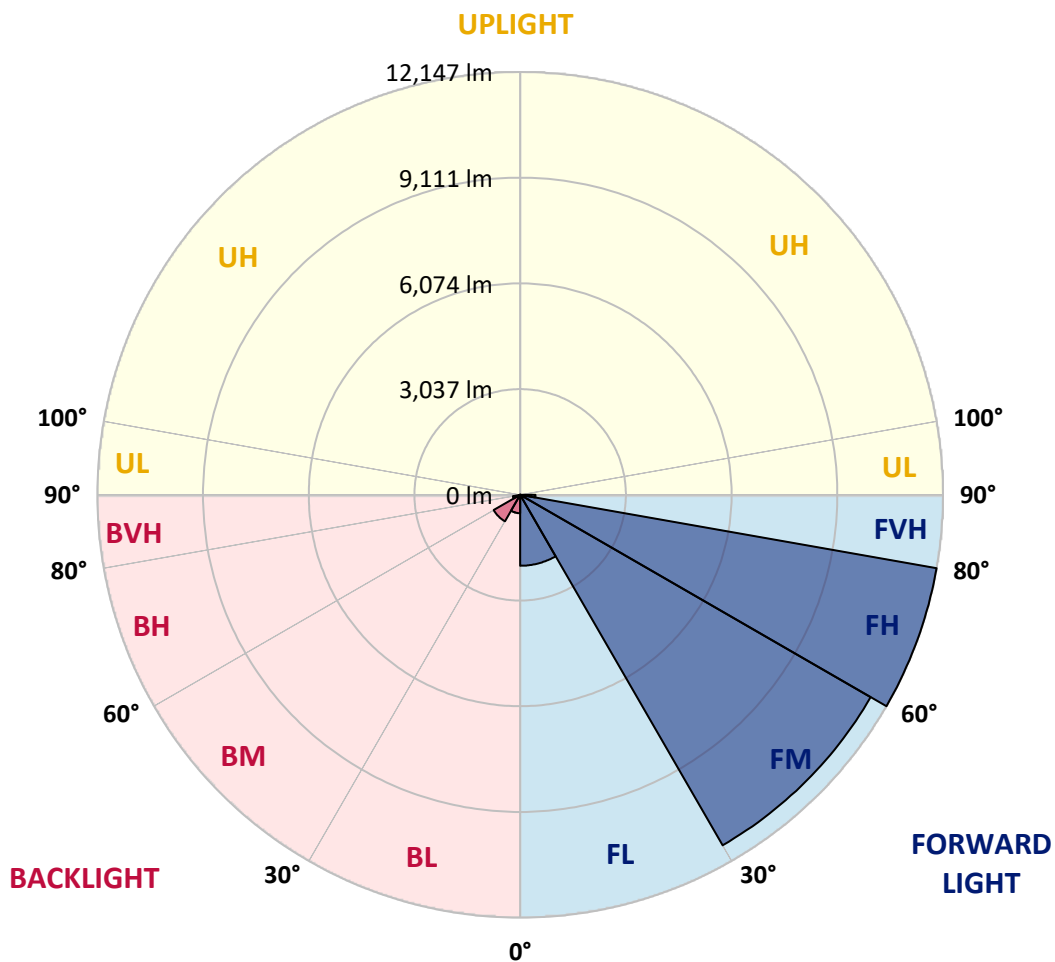
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2039.1	7.3			
FM	(30°-60°)	11625.9	41.7			
FH	(60°-80°)	12147.4	43.6			G5
FVH	(80°-90°)	440.2	1.6			G3/500
BL	(0°-30°)	528.5	1.9	B2/1000		
BM	(30°-60°)	876.8	3.1	B1/1000		
BH	(60°-80°)	211.8	0.8	B1/500		G1/500
BVH	(80°-90°)	14.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
2.5°	4574.3	4549.4	4534.5	4514.6	4489.7	4468.1	4459.8	4398.4	4340.3	4260.6	4169.3
5°	4659.0	4650.7	4624.1	4597.6	4567.7	4534.5	4516.2	4443.2	4360.2	4244.0	4084.7
7.5°	4667.3	4657.3	4624.1	4587.6	4546.1	4506.3	4474.7	4401.7	4325.4	4207.5	4013.3
10°	4654.0	4642.4	4617.5	4577.6	4526.2	4488.0	4456.5	4386.8	4322.0	4215.8	4000.0
12.5°	4639.0	4627.4	4615.8	4595.9	4551.1	4524.5	4498.0	4431.6	4373.5	4283.9	4048.2
15°	4654.0	4647.3	4660.6	4652.3	4627.4	4604.2	4577.6	4517.9	4464.8	4390.1	4136.1
17.5°	4717.1	4717.1	4758.5	4763.5	4740.3	4707.1	4668.9	4609.2	4564.4	4501.3	4240.7
20°	4864.8	4859.8	4912.9	4922.9	4866.4	4815.0	4758.5	4685.5	4650.7	4610.8	4343.6
22.5°	5118.7	5095.5	5127.0	5117.1	5005.9	4926.2	4856.5	4766.8	4748.6	4730.3	4458.1
25°	5449.0	5435.7	5457.3	5359.4	5163.5	5055.6	4972.7	4871.4	4871.4	4889.7	4587.6
27.5°	5928.7	5878.9	5805.9	5633.2	5339.5	5201.7	5112.1	5004.2	5032.4	5100.5	4758.5
30°	6420.0	6365.2	6197.6	5932.0	5553.6	5409.2	5304.6	5191.7	5258.1	5382.6	4987.6
32.5°	6904.6	6843.2	6605.9	6270.6	5860.6	5716.2	5615.0	5490.5	5601.7	5810.8	5322.9
35°	7374.3	7319.6	7045.7	6650.7	6268.9	6149.4	6056.5	5948.6	6091.3	6383.5	5795.9
37.5°	7902.1	7842.4	7508.8	7080.6	6765.2	6678.9	6610.8	6503.0	6751.9	7180.1	6454.8
40°	8551.1	8449.9	8000.1	7573.5	7339.5	7298.0	7251.5	7236.6	7623.3	8215.8	7332.8
42.5°	9294.7	9128.7	8514.6	8093.0	7970.2	8000.1	7988.5	8054.8	8713.8	9503.8	8401.7
45°	10038.3	9824.2	9087.2	8647.4	8664.0	8768.5	8833.3	9098.8	10079.8	10981.0	9552.0
47.5°	10669.0	10458.2	9636.6	9246.6	9445.7	9651.5	9827.5	10330.4	11483.9	12435.0	10446.6
50°	11208.4	11009.2	10219.2	9905.5	10353.6	10685.6	10971.1	11716.3	12994.3	13542.0	11074.0
52.5°	11649.9	11517.1	10823.3	10660.7	11391.0	11877.3	12295.5	13188.5	14332.1	14441.6	11561.9
55°	12079.8	11985.2	11472.3	11558.6	12609.2	13271.5	13801.0	14750.3	15484.0	15191.8	12030.0
57.5°	12574.4	12488.1	12212.6	12697.2	14210.9	15044.1	15621.7	16134.6	16498.1	15958.7	12471.5
60°	13079.0	13029.2	13035.8	13962.0	16049.9	16849.9	17168.6	17301.4	17493.9	16680.6	12496.4
62.5°	13560.3	13654.9	13976.9	15369.4	17811.0	18425.1	18586.1	18717.2	18491.5	16795.2	11545.3
65°	14375.2	14529.6	15298.1	17253.3	19747.9	20405.2	20571.1	20121.3	18649.1	15314.7	9391.0
67.5°	14773.6	15055.7	16426.7	19009.3	21626.8	22357.0	22295.6	20212.6	16735.4	11678.1	6026.6
69°	14690.6	14991.0	16687.3	19547.1	22250.8	22913.1	22523.0	19095.6	14257.4	8459.8	3699.6
70°	14362.0	14665.7	16552.8	19527.1	22330.5	22855.0	22101.4	17716.3	12054.9	6185.9	2313.7
72.5°	11993.5	12255.7	14695.6	17650.0	20571.1	20144.6	18489.8	12274.0	5873.9	1684.7	521.2
75°	7382.6	7528.7	10544.5	13296.4	15537.1	14441.6	12318.8	6106.3	1751.1	476.4	288.8
77.5°	3900.5	3966.8	5772.7	7837.4	9849.1	8149.5	6313.8	2381.8	806.6	298.8	209.1
80°	2305.4	2355.2	3108.7	3583.4	4262.3	3560.2	2524.5	1462.3	577.6	187.6	185.9
82.5°	1319.5	1351.0	2254.0	1991.7	1679.7	1434.0	1256.4	1385.9	346.9	126.1	192.5
85°	484.7	491.3	1268.1	1515.4	999.2	594.2	624.1	1148.6	92.9	79.7	151.0
87.5°	225.7	220.7	652.3	927.8	584.2	376.8	486.3	252.3	36.5	51.5	41.5
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°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
2.5°	4116.2	4054.8	3943.6	3829.1	3712.9	3623.3	3535.3	3465.6	3442.4	3399.2	3402.5
5°	3990.1	3877.2	3644.8	3409.2	3163.5	2961.0	2770.1	2615.8	2541.1	2464.8	2464.8
7.5°	3880.5	3716.2	3352.7	2969.3	2572.6	2239.0	1938.6	1712.9	1588.4	1488.8	1487.2
10°	3839.0	3616.6	3108.7	2559.4	2006.7	1551.9	1195.0	966.0	848.1	771.8	768.5
12.5°	3857.3	3581.8	2921.2	2180.9	1487.2	997.5	692.1	544.4	494.6	471.4	471.4
15°	3910.4	3571.8	2733.6	1810.8	1050.6	624.1	459.8	419.9	416.6	416.6	416.6
17.5°	3975.1	3575.1	2541.1	1450.6	715.4	446.5	396.7	391.7	395.0	395.0	395.0
20°	4041.5	3576.8	2333.6	1117.0	504.6	388.4	373.4	371.8	375.1	375.1	376.8
22.5°	4122.9	3585.1	2126.2	834.9	416.6	366.8	355.2	355.2	356.8	356.8	355.2
25°	4215.8	3601.7	1910.4	619.1	380.1	351.9	341.9	340.3	341.9	340.3	338.6
27.5°	4332.0	3624.9	1669.7	484.7	363.5	336.9	328.6	328.6	327.0	325.3	323.7
30°	4478.0	3651.5	1399.2	411.6	346.9	323.7	315.4	313.7	312.0	308.7	308.7
32.5°	4700.5	3709.6	1132.0	373.4	328.6	305.4	298.8	298.8	295.4	292.1	290.5
35°	5042.4	3824.1	893.0	350.2	308.7	285.5	277.2	277.2	273.9	272.2	270.5
37.5°	5515.4	3998.4	693.8	328.6	288.8	263.9	255.6	253.9	250.6	247.3	245.6
40°	6144.5	4214.1	546.1	308.7	268.9	242.3	235.7	232.4	225.7	220.7	220.7
42.5°	6934.5	4459.8	443.2	287.1	245.6	222.4	217.4	212.5	200.8	195.9	194.2
45°	7761.1	4680.5	375.1	262.2	222.4	202.5	199.2	190.9	175.9	171.0	171.0
47.5°	8356.9	4732.0	330.3	239.0	200.8	180.9	179.3	164.3	151.0	147.7	146.1
50°	8728.7	4630.7	293.8	215.8	180.9	161.0	156.0	137.8	129.5	126.1	124.5
52.5°	8979.3	4449.8	263.9	195.9	162.7	142.7	131.1	117.8	111.2	107.9	107.9
55°	9180.2	4194.2	234.0	177.6	147.7	127.8	111.2	101.2	94.6	91.3	91.3
57.5°	9236.6	3847.3	204.2	162.7	132.8	112.9	94.6	88.0	79.7	78.0	78.0
60°	8826.6	3221.6	180.9	144.4	119.5	97.9	83.0	74.7	66.4	64.7	63.1
62.5°	7746.1	2493.0	159.3	127.8	104.6	84.6	71.4	61.4	54.8	54.8	54.8
65°	5908.8	1671.4	139.4	111.2	91.3	71.4	61.4	49.8	46.5	46.5	48.1
67.5°	3537.0	909.6	119.5	94.6	78.0	59.8	51.5	43.2	41.5	43.2	43.2
69°	2073.0	534.4	107.9	84.6	68.1	53.1	44.8	38.2	41.5	43.2	43.2
70°	1279.7	360.2	99.6	76.3	61.4	48.1	41.5	36.5	39.8	41.5	41.5
72.5°	356.8	185.9	79.7	59.8	49.8	39.8	33.2	33.2	38.2	39.8	39.8
75°	232.4	137.8	61.4	44.8	38.2	31.5	28.2	31.5	36.5	38.2	38.2
77.5°	192.5	112.9	49.8	36.5	31.5	29.9	26.6	28.2	33.2	34.9	34.9
80°	175.9	79.7	39.8	33.2	28.2	26.6	24.9	23.2	29.9	31.5	31.5
82.5°	167.6	63.1	34.9	29.9	26.6	23.2	21.6	23.2	26.6	28.2	29.9
85°	104.6	41.5	31.5	28.2	23.2	21.6	21.6	21.6	24.9	26.6	26.6
87.5°	38.2	33.2	28.2	23.2	19.9	19.9	19.9	19.9	21.6	24.9	24.9
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)