

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: P191848

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL2-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39428 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

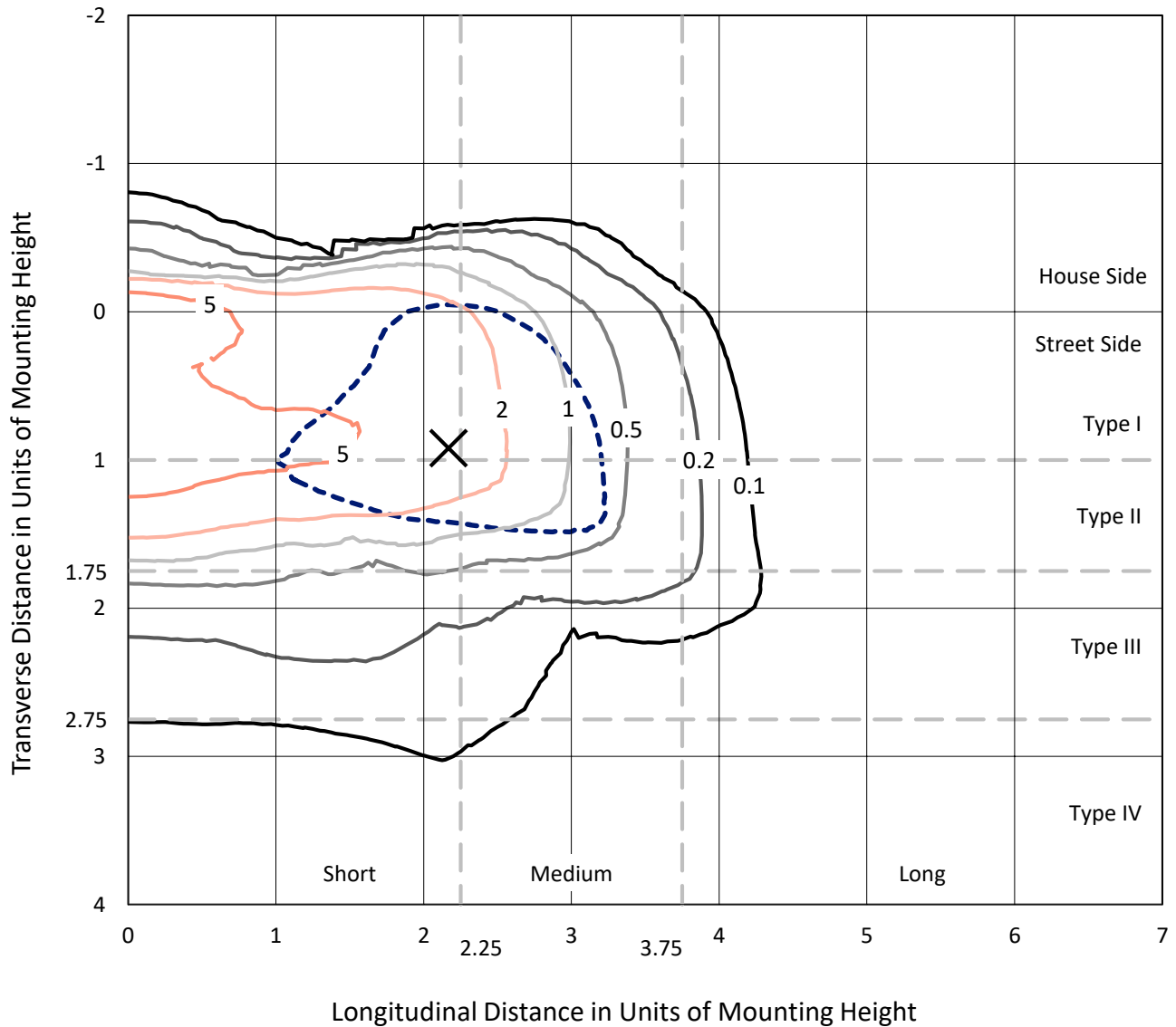


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Iso-Footcandle Lines of Horizontal Illumination

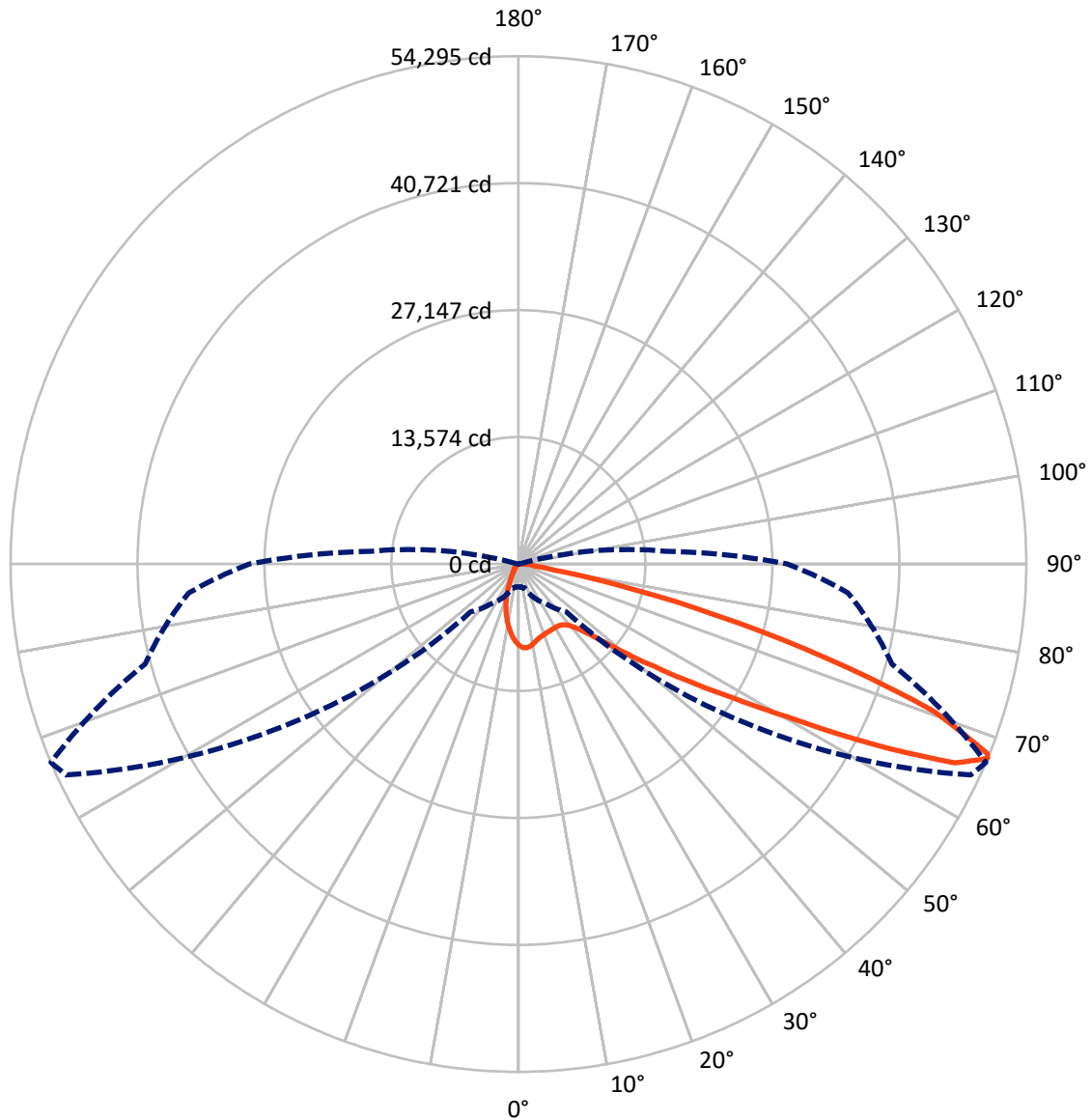
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4093.8	0.0	4093.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	35334.2	0.0	35334.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	39428.0	0.0	39428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.5	1.8
10°-20°	1505.9	3.8
20°-30°	2189.4	5.6
30°-40°	3415.6	8.7
40°-50°	6050.5	15.3
50°-60°	9574.4	24.3
60°-70°	10966.1	27.8
70°-80°	4548.7	11.5
80°-90°	469.9	1.2
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°	39428.0	100.0
0°-180°	39428.0	100.0

Coefficient of Utilization



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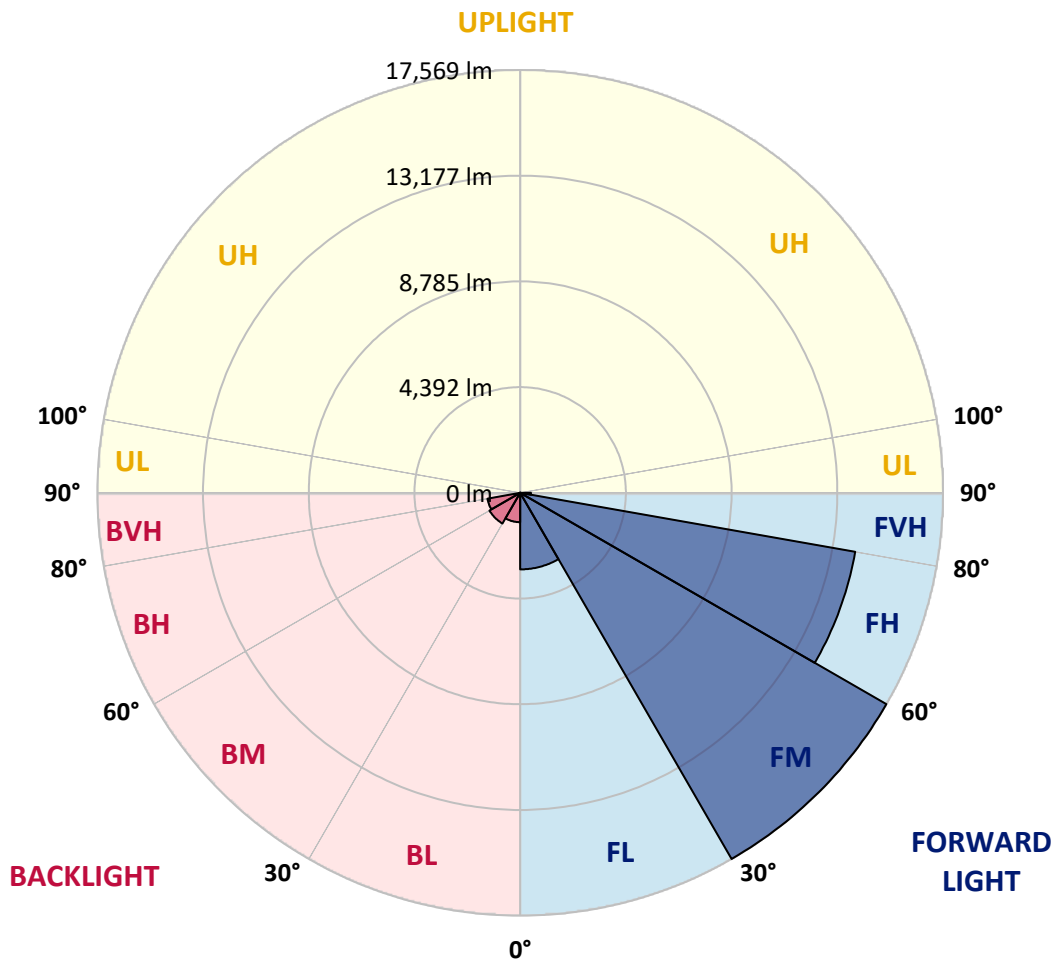
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3181.2	8.1			
FM (30°-60°)	17569.2	44.6			
FH (60°-80°)	14135.0	35.9			G5
FVH (80°-90°)	448.7	1.1			G3/500
BL (0°-30°)	1221.6	3.1	B3/2500		
BM (30°-60°)	1471.3	3.7	B2/2500		
BH (60°-80°)	1379.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	21.2	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3
2.5°	8989.7	9008.1	9005.8	9019.6	9051.8	9054.1	9021.9	8959.8	8946.0	8865.5	8725.2
5°	8290.6	8343.5	8375.7	8506.8	8653.9	8831.0	8964.4	9012.7	9005.8	8948.3	8736.7
7.5°	7492.6	7545.5	7582.3	7736.3	7931.8	8235.4	8582.6	8867.8	8893.1	8955.2	8727.5
10°	6961.3	6970.5	7021.1	7168.3	7373.0	7683.4	8097.4	8596.4	8672.3	8900.0	8704.5
12.5°	6524.4	6531.3	6598.0	6756.6	6975.1	7287.9	7722.5	8299.8	8417.1	8831.0	8699.9
15°	6213.9	6239.2	6299.0	6464.6	6696.9	7007.3	7453.5	8081.3	8221.6	8805.7	8741.3
17.5°	6110.4	6138.0	6156.4	6276.0	6487.6	6791.1	7248.8	7938.7	8097.4	8819.5	8821.8
20°	6218.5	6239.2	6197.8	6227.7	6358.8	6630.2	7076.3	7816.8	8005.4	8835.6	8925.3
22.5°	6621.0	6630.2	6517.5	6386.4	6363.4	6512.9	6940.6	7720.2	7922.6	8879.3	9047.2
25°	7310.9	7294.8	7110.8	6827.9	6561.2	6492.2	6860.1	7660.4	7881.2	8925.3	9173.7
27.5°	8143.4	8166.4	7913.4	7501.8	6993.5	6630.2	6848.6	7635.1	7862.8	8957.5	9284.1
30°	9155.3	9187.5	8897.7	8380.3	7651.2	6970.5	6954.4	7630.5	7851.3	8936.8	9293.3
32.5°	10187.9	10227.0	9999.3	9465.7	8529.7	7540.9	7193.6	7681.1	7874.3	8865.5	9240.4
35°	11268.7	11323.9	11172.2	10714.5	9721.0	8364.2	7614.5	7835.2	7982.4	8858.6	9187.5
37.5°	12761.3	12811.9	12526.7	12041.5	11163.0	9468.0	8290.6	8125.0	8237.7	8969.0	9201.3
40°	14989.7	14982.8	14246.9	13504.1	12747.5	10870.9	9240.4	8649.3	8706.8	9302.5	9371.5
42.5°	17418.3	17406.8	16319.0	15189.8	14506.8	12598.0	10489.1	9555.4	9516.3	9916.5	9813.0
45°	19290.2	19287.9	18400.2	17128.5	16624.8	14580.4	12103.5	10815.7	10755.9	10914.6	10627.1
47.5°	20088.3	20102.1	19655.9	18761.3	18972.9	17261.9	14138.8	12641.7	12552.0	12487.6	12050.7
50°	19467.3	19494.9	19531.7	19356.9	20695.4	20865.6	16868.6	15215.1	15171.4	14883.9	14200.9
52.5°	17439.0	17579.2	18011.6	18565.8	21293.3	24324.4	21148.4	18411.7	18177.2	17871.3	17119.3
55°	14021.5	14175.6	14996.6	16342.0	20403.3	26596.5	27146.2	22532.9	22141.9	21228.9	20143.5
57.5°	9279.5	9518.6	10709.9	12420.9	17818.4	26962.2	33130.1	28252.3	26890.9	24391.1	23167.6
60°	5112.3	5342.3	6634.8	8184.8	12869.4	25154.6	37154.7	35698.9	33293.4	27925.8	26840.3
62.5°	3148.3	3272.5	4226.9	5668.9	7717.9	19853.7	37987.2	45056.6	42271.6	32477.0	31276.5
65°	2506.7	2559.6	3026.5	4634.0	5533.2	11809.2	35298.8	52190.4	51261.3	37987.2	35248.2
67°	2433.1	2453.8	2674.6	3978.6	5215.8	7239.6	29572.4	53351.7	54294.6	41321.8	35372.4
67.5°	2449.2	2472.2	2681.5	3796.9	5206.6	6653.2	27599.2	52894.1	54085.4	41586.3	34822.7
70°	2361.8	2433.1	3070.2	3794.6	4951.3	5528.6	16528.3	45829.3	47068.8	38640.3	29547.1
72.5°	837.1	841.7	1327.0	3070.2	5383.7	5588.4	8299.8	33597.0	34514.6	29558.6	21302.5
75°	496.7	423.2	441.6	873.9	5144.5	5427.4	4788.1	21468.1	21810.8	16937.6	10788.1
77.5°	342.7	299.0	308.2	386.4	1959.4	5351.5	3803.8	11195.2	10829.5	5940.2	2297.4
80°	195.5	172.5	184.0	338.1	712.9	4992.7	3587.6	4539.7	3870.5	1007.3	634.7
82.5°	103.5	87.4	105.8	278.3	496.7	3111.6	3594.5	2194.0	1738.6	340.4	432.4
85°	36.8	29.9	50.6	190.9	331.2	954.4	3332.3	1844.4	1448.8	165.6	328.9
87.5°	6.9	6.9	20.7	78.2	133.4	292.1	1970.9	1094.7	733.6	98.9	225.4
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°	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3	8695.3
2.5°	8667.7	8568.8	8435.5	8272.2	8079.0	7908.8	7782.3	7651.2	7623.6	7577.7	7570.8
5°	8610.2	8440.1	8108.9	7729.4	7324.7	6959.0	6662.4	6397.9	6280.6	6179.4	6167.9
7.5°	8525.1	8269.9	7706.4	7094.7	6462.3	5887.3	5399.8	5054.8	4737.5	4585.7	4562.7
10°	8426.3	8060.6	7253.4	6404.8	5530.9	4719.1	3994.7	3387.5	3019.6	2801.1	2773.5
12.5°	8334.3	7855.9	6791.1	5689.6	4528.2	3442.7	2511.3	1931.8	1545.4	1389.0	1370.6
15°	8290.6	7690.3	6358.8	4958.2	3479.5	2191.7	1372.9	1062.5	936.0	899.2	896.9
17.5°	8286.0	7550.1	5935.6	4201.6	2437.7	1274.1	894.6	816.4	791.1	781.9	781.9
20°	8283.7	7416.7	5512.5	3417.4	1547.7	848.6	745.1	726.7	708.3	696.8	696.8
22.5°	8309.0	7297.1	5070.9	2617.1	975.1	687.6	655.4	637.0	614.0	597.9	595.6
25°	8334.3	7205.1	4620.2	1862.8	706.0	597.9	565.7	540.4	508.2	487.5	485.2
27.5°	8338.9	7090.1	4137.2	1246.5	591.0	522.0	480.6	441.6	404.8	384.1	381.8
30°	8269.9	6896.9	3601.4	841.7	522.0	453.0	397.9	356.5	322.0	305.9	305.9
32.5°	8134.2	6657.8	3012.7	634.7	464.5	388.7	328.9	289.8	266.8	259.9	257.6
35°	8012.3	6400.2	2407.8	538.1	416.3	328.9	269.1	243.8	230.0	227.7	225.4
37.5°	7941.0	6193.2	1839.8	487.5	370.3	276.0	227.7	209.3	202.4	197.8	200.1
40°	7996.2	6020.7	1359.1	446.2	324.3	230.0	193.2	184.0	177.1	174.8	174.8
42.5°	8237.7	5990.8	1009.6	409.4	280.6	190.9	167.9	161.0	156.4	154.1	156.4
45°	8872.4	6174.8	784.2	374.9	236.9	161.0	142.6	140.3	138.0	138.0	138.0
47.5°	9826.8	6554.3	653.1	335.8	197.8	138.0	124.2	121.9	119.6	121.9	121.9
50°	11443.5	7248.8	584.1	296.7	163.3	117.3	105.8	105.8	105.8	105.8	108.1
52.5°	13901.9	8614.8	538.1	257.6	133.4	98.9	89.7	89.7	92.0	92.0	94.3
55°	16640.9	10427.0	496.7	218.5	112.7	82.8	73.6	75.9	78.2	80.5	80.5
57.5°	19612.2	12434.7	462.2	179.4	96.6	66.7	62.1	64.4	66.7	71.3	71.3
60°	23197.5	14608.0	411.7	140.3	80.5	52.9	48.3	52.9	59.8	64.4	66.7
62.5°	27134.7	16709.9	347.3	110.4	66.7	41.4	39.1	48.3	57.5	62.1	64.4
65°	29825.4	17370.0	266.8	89.7	50.6	29.9	32.2	43.7	55.2	62.1	62.1
67°	28735.3	15748.6	218.5	75.9	41.4	23.0	29.9	43.7	55.2	59.8	62.1
67.5°	27978.7	15113.9	209.3	73.6	39.1	23.0	29.9	43.7	55.2	62.1	62.1
70°	22765.2	11353.8	174.8	55.2	32.2	20.7	25.3	41.4	52.9	59.8	59.8
72.5°	15817.6	7000.4	156.4	39.1	27.6	18.4	23.0	39.1	50.6	57.5	59.8
75°	7520.2	2534.3	133.4	29.9	25.3	16.1	20.7	39.1	50.6	57.5	57.5
77.5°	1533.9	588.7	108.1	25.3	20.7	16.1	18.4	36.8	48.3	55.2	55.2
80°	503.6	227.7	80.5	23.0	20.7	16.1	18.4	34.5	48.3	52.9	55.2
82.5°	363.4	115.0	52.9	23.0	20.7	16.1	16.1	34.5	46.0	52.9	52.9
85°	278.3	80.5	34.5	23.0	20.7	16.1	16.1	32.2	43.7	50.6	50.6
87.5°	184.0	32.2	27.6	23.0	20.7	16.1	16.1	32.2	41.4	48.3	50.6
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)