

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: P192877

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43969.2 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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



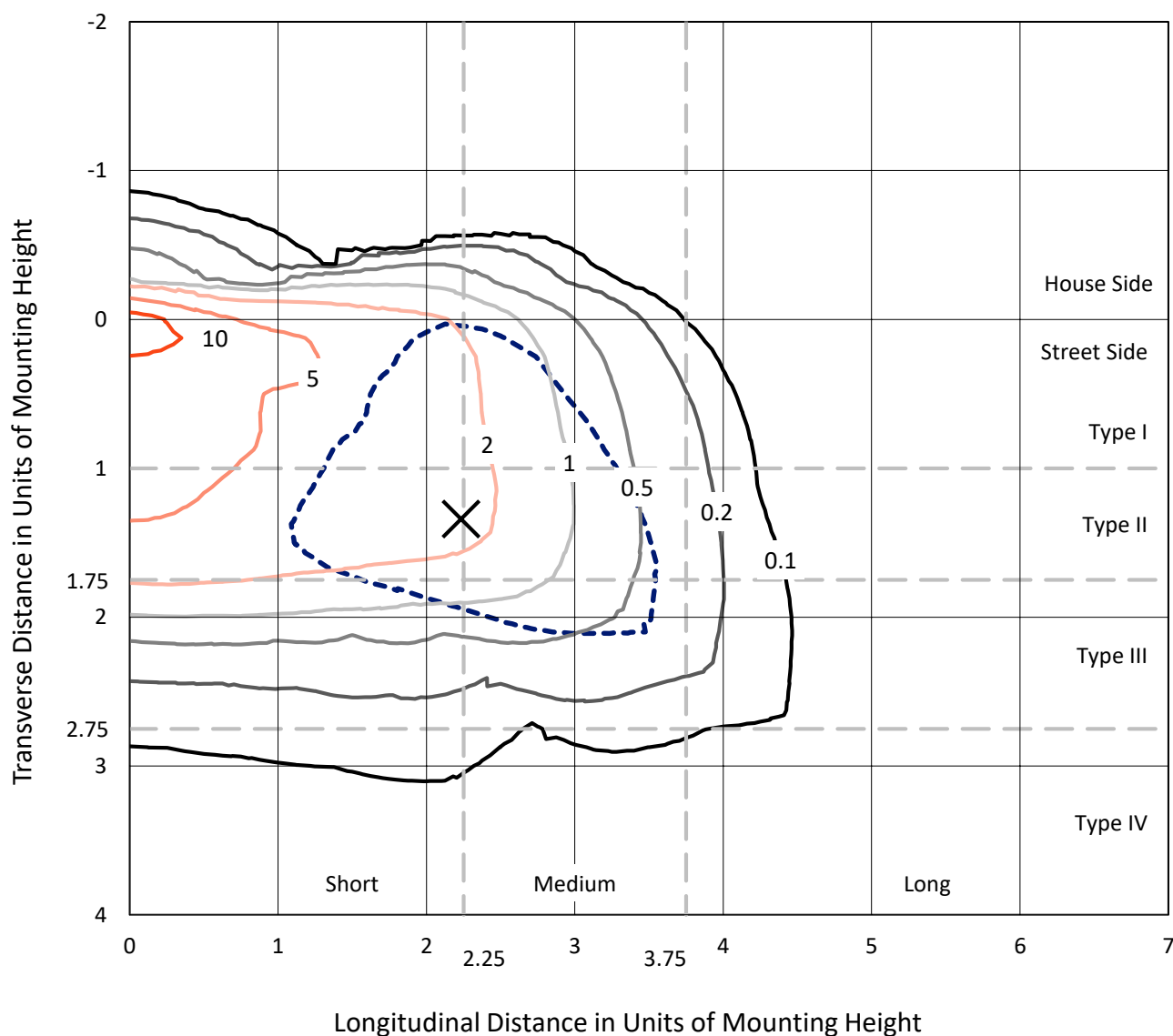
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

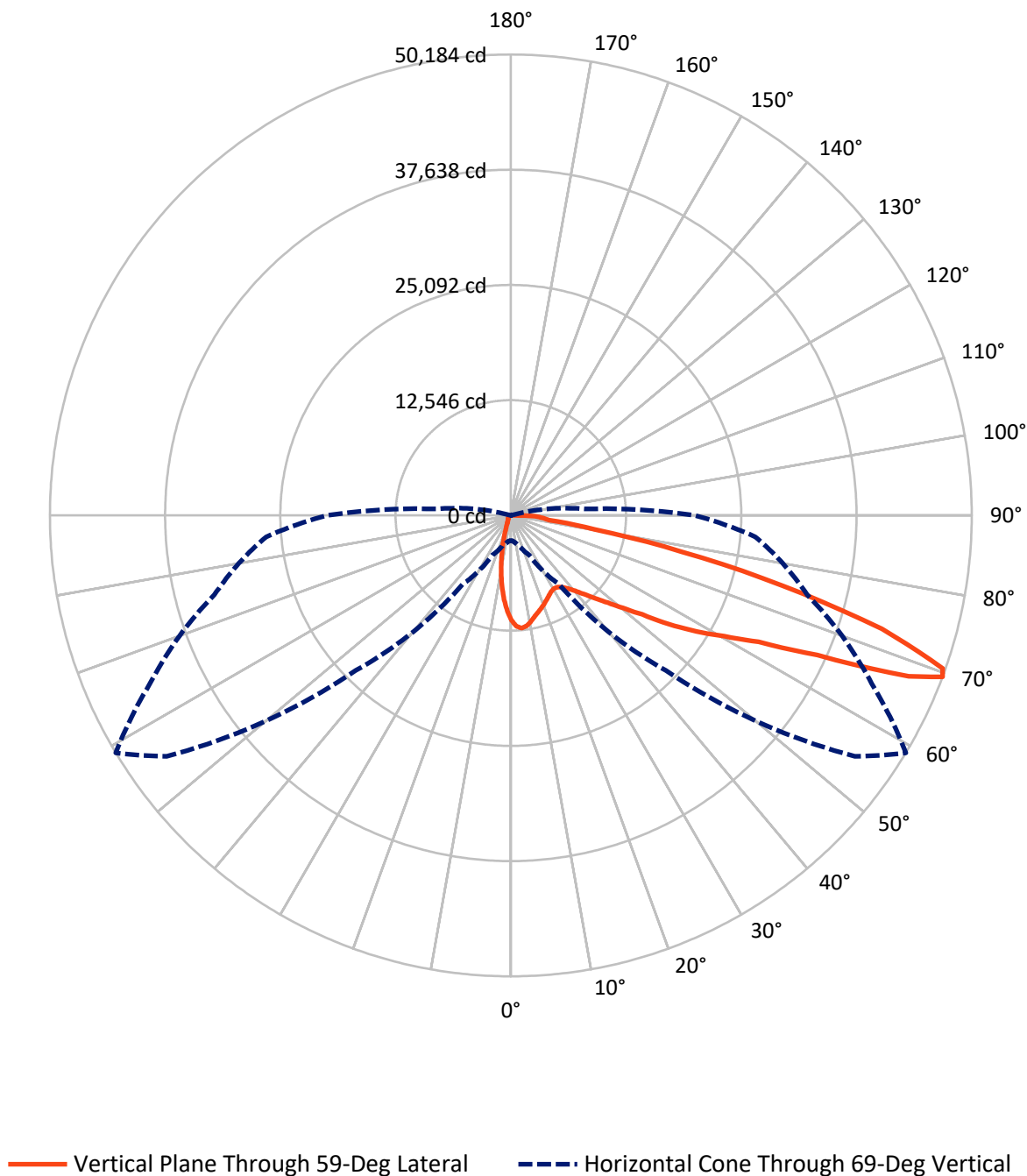


Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3580.7	0.0	3580.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	40388.5	0.0	40388.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	43969.2	0.0	43969.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.0	2.1
10°-20°	1919.5	4.4
20°-30°	2582.9	5.9
30°-40°	3750.2	8.5
40°-50°	6244.4	14.2
50°-60°	9741.2	22.2
60°-70°	12054.0	27.4
70°-80°	6108.8	13.9
80°-90°	639.2	1.5
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°	43969.2	100.0
0°-180°	43969.2	100.0

Coefficient of Utilization



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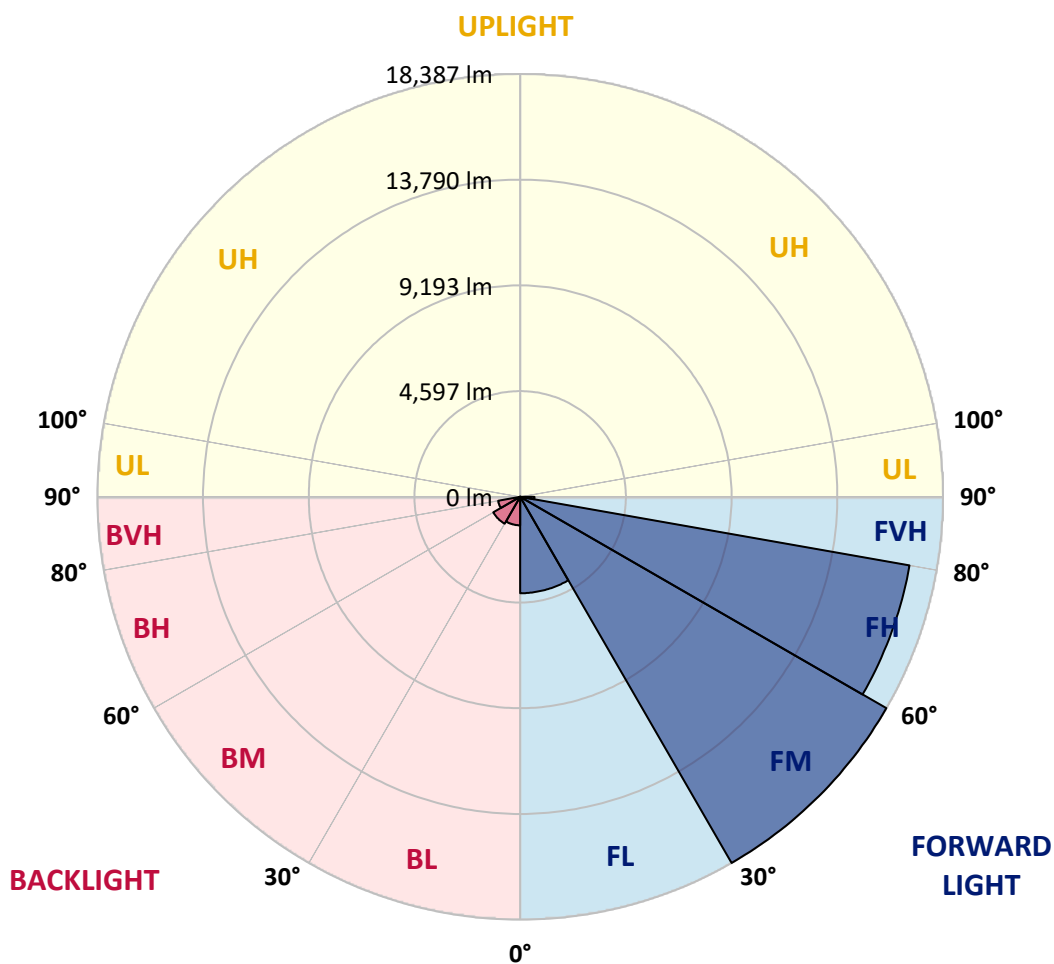
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4192.0	9.5			
FM	(30°-60°)	18386.6	41.8			
FH	(60°-80°)	17190.4	39.1			G5
FVH	(80°-90°)	619.5	1.4			G4/750
BL	(0°-30°)	1239.4	2.8	B3/2500		
BM	(30°-60°)	1349.2	3.1	B2/2500		
BH	(60°-80°)	972.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	19.7	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6
2.5°	12543.5	12538.6	12483.9	12459.1	12414.2	12319.7	12173.1	12096.0	11971.6	11755.3	11464.5
5°	12429.2	12488.9	12521.1	12523.7	12556.0	12521.1	12389.4	12324.8	12153.1	11805.1	11282.9
7.5°	11653.4	11675.8	11767.8	11847.3	12001.5	12148.2	12195.4	12168.1	12066.1	11693.3	10999.5
10°	10823.0	10845.4	10954.8	11059.2	11268.0	11494.3	11733.1	11782.7	11825.0	11534.1	10726.0
12.5°	10106.9	10129.3	10241.2	10378.0	10621.6	10900.0	11270.5	11352.6	11539.1	11382.4	10507.3
15°	9490.4	9500.3	9609.7	9778.7	10069.7	10427.7	10847.8	10979.7	11265.6	11275.5	10315.8
17.5°	8965.7	8990.6	9057.7	9219.3	9537.6	9980.2	10470.0	10658.9	10994.5	11186.0	10129.3
20°	8644.9	8669.8	8667.3	8756.8	9042.8	9515.2	10092.1	10318.2	10726.0	11093.9	9962.7
22.5°	8582.9	8582.9	8518.2	8505.8	8674.8	9070.1	9699.2	9975.2	10484.8	11054.2	9845.9
25°	8804.1	8794.2	8632.6	8500.8	8508.2	8744.4	9318.7	9646.9	10281.0	11081.6	9783.7
27.5°	9271.5	9259.0	9055.2	8804.1	8602.7	8600.3	9030.4	9383.4	10119.4	11210.9	9808.5
30°	9918.0	9913.0	9691.8	9376.0	9010.5	8674.8	8930.9	9251.6	10014.9	11444.6	9865.8
32.5°	10624.1	10616.6	10450.0	10116.9	9654.3	9010.5	9035.3	9303.9	10044.8	11755.3	10005.0
35°	11372.5	11360.0	11287.9	10997.1	10487.4	9629.6	9378.5	9587.3	10233.8	12220.3	10278.4
37.5°	12183.1	12195.4	12247.6	11969.3	11434.6	10497.3	9952.8	10094.5	10614.1	12851.8	10723.6
40°	13378.9	13376.5	13393.9	13028.4	12513.7	11559.0	10755.8	10800.6	11250.7	13689.7	11399.8
42.5°	15549.6	15397.8	14937.8	14192.0	13674.8	12772.3	11767.8	11720.6	12028.9	14726.5	12347.1
45°	18466.0	18142.7	16949.3	15519.6	14858.2	14139.8	13013.5	12861.8	13058.2	15972.2	13515.7
47.5°	20974.7	20639.1	18950.8	16902.1	16113.9	15437.6	14472.9	14199.5	14264.2	17367.0	14997.6
50°	21827.5	21663.4	20189.0	18105.5	17329.7	17071.1	16166.1	15833.0	15741.0	18980.6	16715.6
52.5°	21531.6	21519.1	20537.1	18886.1	18443.6	18761.9	18296.9	17911.5	17573.4	20681.2	18463.5
55°	21056.8	21118.8	20678.9	19569.9	19555.0	20305.9	21210.8	20890.2	19910.6	22528.6	19970.2
57.5°	19746.4	20012.5	20599.2	20862.8	21474.5	22242.7	23637.5	23826.5	22667.9	23943.4	21220.8
60°	16021.9	16606.2	18525.7	21049.3	23948.3	25862.8	26566.4	26728.1	24930.4	25119.4	22909.1
62.5°	11372.5	11969.3	14403.3	18672.3	23985.5	30619.2	30929.9	30296.0	27421.8	26862.3	25820.5
65°	6036.8	6496.8	8485.8	13478.4	20795.7	31723.1	38560.6	36670.9	31817.6	30290.9	29582.4
67.5°	3088.0	3227.3	4017.9	6596.2	14296.3	28177.5	45400.4	46730.6	39393.4	33692.3	29400.9
69°	2732.5	2814.5	3339.2	4768.7	9154.7	23866.3	45733.5	50184.1	43359.1	33408.9	26718.2
70°	2645.5	2717.6	3195.0	4316.3	7155.6	20014.9	44458.0	49880.7	44373.6	32329.7	24714.1
72.5°	2245.2	2307.3	2844.3	3814.0	5815.6	9935.4	36113.9	42267.6	39818.6	26932.0	17889.1
75°	1501.8	1705.6	2730.0	3575.3	5410.3	5644.0	23809.1	30544.5	28374.0	18165.1	9318.7
77.5°	360.5	387.9	770.8	2844.3	4947.8	4967.7	12245.1	18988.0	15487.4	6474.3	2202.8
80°	193.9	186.5	216.4	564.5	4607.1	4661.9	5512.2	9216.8	5529.6	1074.1	726.0
82.5°	136.8	129.3	139.2	236.2	1449.6	4246.7	3988.1	4172.1	2292.4	412.8	325.7
85°	49.7	47.2	77.0	213.8	454.9	2441.6	4097.4	3441.1	1857.3	188.9	238.7
87.5°	17.4	15.0	29.8	116.9	139.2	1039.3	2528.6	2600.7	731.0	114.4	111.9
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°	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6	11444.6
2.5°	11342.6	11188.4	10905.0	10614.1	10345.6	10022.4	9860.7	9701.6	9634.5	9609.7	9492.8
5°	11014.4	10753.4	10151.8	9547.5	8990.6	8398.9	8008.4	7695.2	7511.2	7421.7	7280.0
7.5°	10594.3	10166.6	9254.1	8321.7	7454.0	6598.7	5964.7	5477.3	5141.7	4980.1	4833.4
10°	10186.5	9617.1	8319.2	7048.8	5870.2	4736.5	3861.2	3227.3	2821.9	2635.6	2516.1
12.5°	9821.0	9082.6	7416.7	5808.1	4328.8	3001.1	2110.9	1606.2	1355.1	1268.1	1225.8
15°	9495.2	8590.3	6563.9	4629.6	2931.4	1715.6	1153.7	982.1	942.4	942.4	937.3
17.5°	9186.9	8107.9	5740.9	3523.2	1839.9	1049.2	877.7	855.3	855.3	865.3	865.3
20°	8891.1	7647.9	4945.3	2528.6	1158.5	832.9	793.1	788.2	793.1	805.6	805.6
22.5°	8637.5	7230.2	4201.9	1735.5	860.3	750.8	731.0	723.6	726.0	733.4	738.5
25°	8448.6	6877.3	3500.7	1176.0	740.9	683.8	661.3	648.9	638.9	638.9	644.0
27.5°	8329.2	6578.8	2821.9	855.3	666.4	621.5	586.7	566.8	544.5	532.1	537.0
30°	8242.2	6295.4	2185.5	698.7	596.7	552.0	507.2	474.8	442.6	427.6	432.6
32.5°	8209.8	6066.6	1633.5	616.7	534.6	484.8	430.2	387.9	353.0	340.7	343.1
35°	8296.9	5885.1	1196.0	556.9	484.8	422.8	360.5	313.2	285.9	278.5	280.9
37.5°	8525.6	5788.2	895.1	507.2	440.1	370.5	300.9	256.1	238.7	238.7	241.1
40°	8958.2	5785.8	718.6	472.4	400.3	320.7	248.7	216.4	206.4	211.3	213.8
42.5°	9589.8	5917.5	626.6	440.1	365.5	273.4	206.4	184.0	181.5	186.5	188.9
45°	10452.5	6158.6	576.8	412.8	328.3	228.8	174.0	159.1	159.1	166.6	169.1
47.5°	11509.3	6511.8	534.6	385.3	290.8	191.4	149.1	139.2	141.7	149.1	151.7
50°	12782.2	6956.7	492.3	355.5	263.6	159.1	129.3	121.9	124.3	134.3	136.8
52.5°	14231.8	7556.0	457.5	328.3	228.8	131.7	109.4	104.5	109.4	119.3	121.9
55°	15474.9	8093.1	415.1	305.8	184.0	109.4	89.5	89.5	94.5	107.0	109.4
57.5°	16670.9	8654.9	377.9	263.6	144.2	87.0	74.7	77.0	84.5	96.9	99.4
60°	18426.1	9607.1	333.1	221.2	109.4	69.6	62.2	64.7	74.7	87.0	89.5
62.5°	21407.2	11056.7	288.5	184.0	84.5	54.7	49.7	54.7	67.0	82.1	84.5
65°	24097.4	11646.0	236.2	154.2	64.7	42.3	42.3	49.7	64.7	79.5	82.1
67.5°	22598.2	9803.7	184.0	121.9	49.7	32.3	34.9	47.2	62.2	79.5	82.1
69°	19985.1	8016.0	156.7	96.9	42.3	29.8	32.3	47.2	62.2	77.0	79.5
70°	17948.8	6767.7	139.2	82.1	37.2	29.8	32.3	44.8	62.2	77.0	79.5
72.5°	12021.4	3654.9	111.9	59.6	34.9	27.4	27.4	44.8	59.6	74.7	77.0
75°	5166.6	1009.4	89.5	42.3	29.8	24.9	24.9	42.3	57.2	72.1	77.0
77.5°	944.8	256.1	72.1	37.2	29.8	24.9	22.4	39.8	54.7	69.6	72.1
80°	375.5	126.8	57.2	32.3	27.4	22.4	19.8	37.2	52.2	67.0	69.6
82.5°	226.2	72.1	47.2	29.8	27.4	19.8	17.4	32.3	49.7	64.7	67.0
85°	184.0	49.7	37.2	29.8	24.9	19.8	15.0	29.8	44.8	62.2	64.7
87.5°	89.5	34.9	34.9	27.4	24.9	19.8	15.0	27.4	42.3	59.6	62.2
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)