

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: P192798

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192798
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-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 47197.8 lumens
Efficiency: N/A
Efficacy: 84.6 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): 558
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



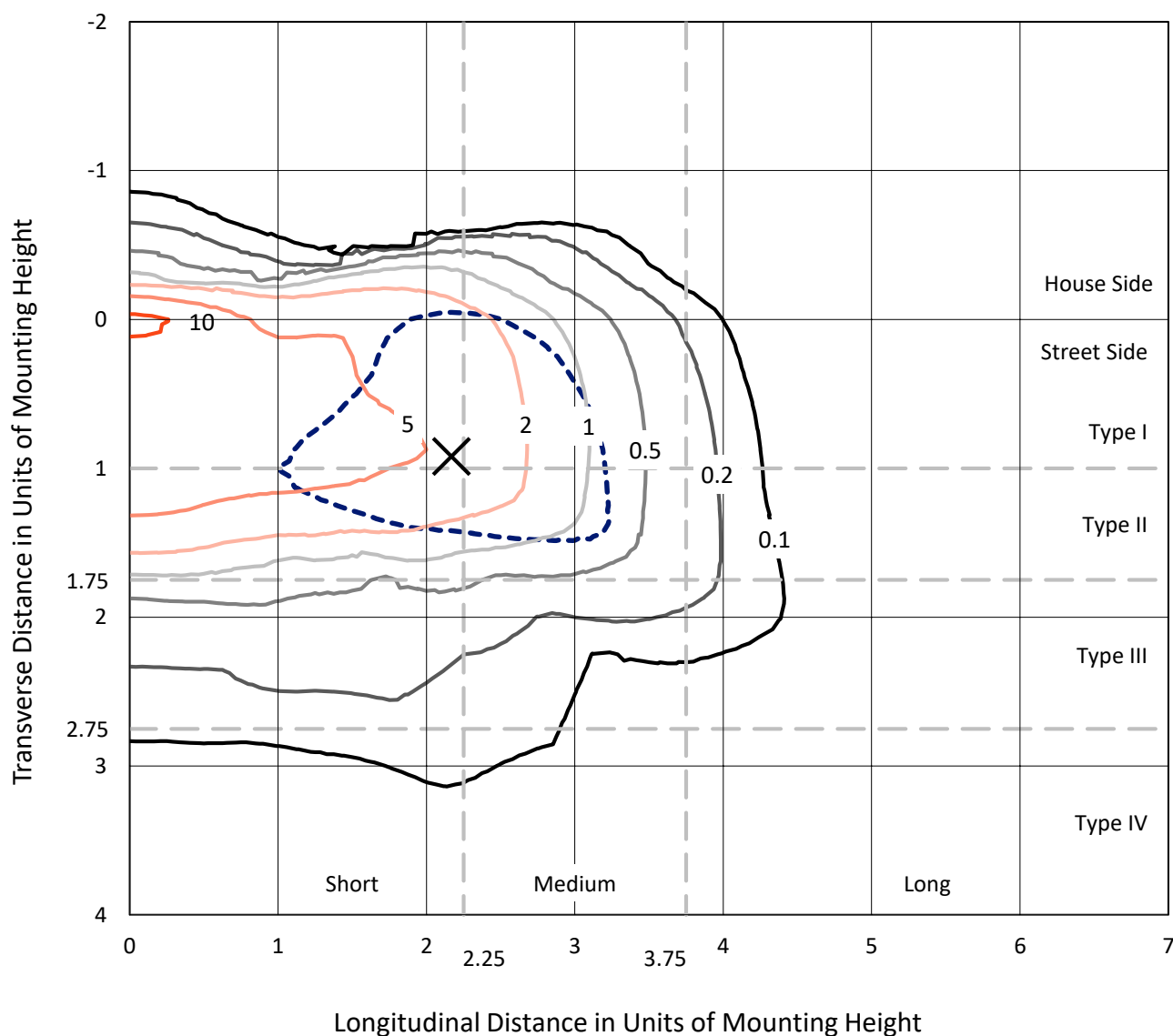
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

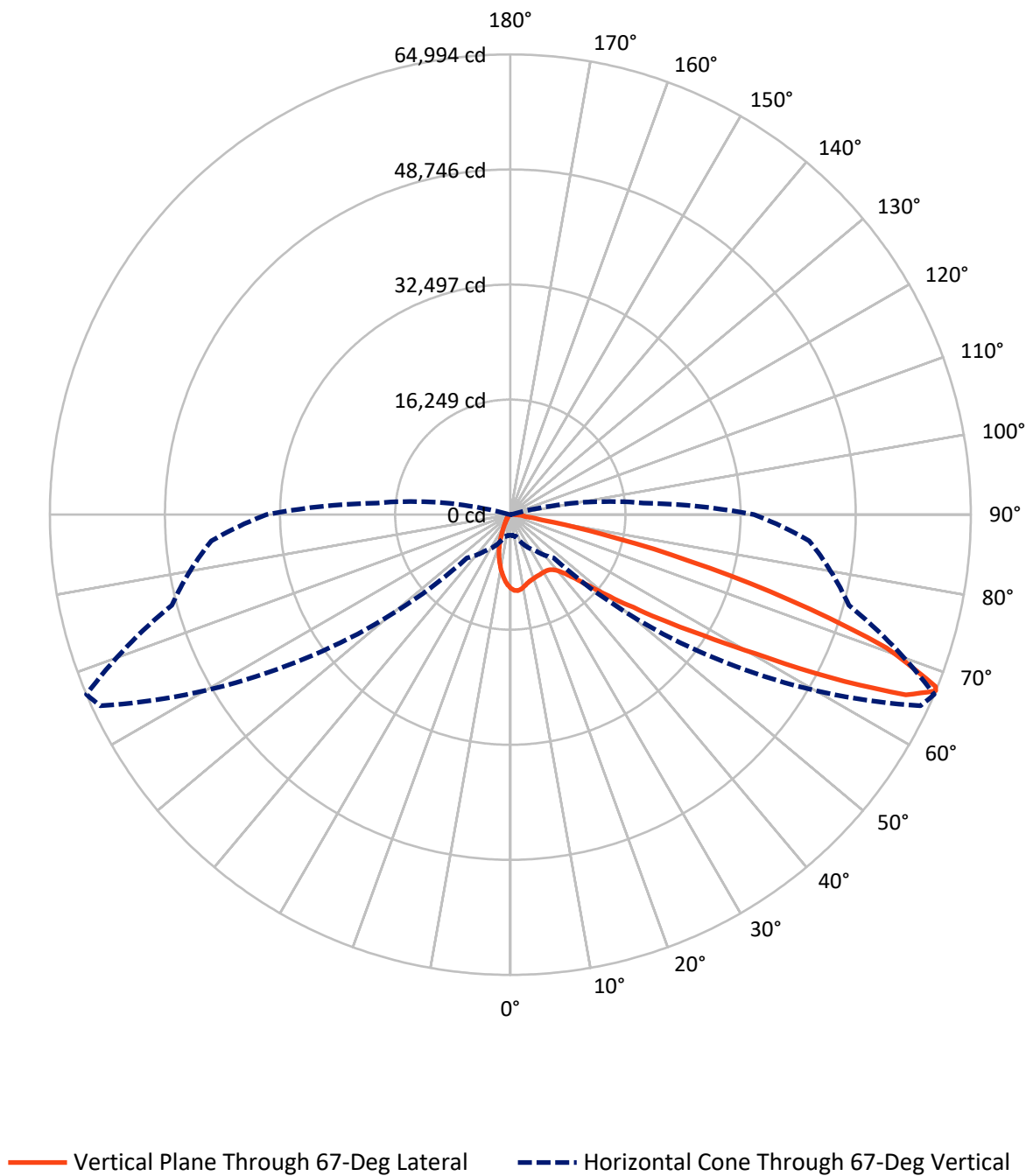


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4900.6	0.0	4900.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	42297.3	0.0	42297.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	47197.8	0.0	47197.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.0	1.8
10°-20°	1802.6	3.8
20°-30°	2620.9	5.6
30°-40°	4088.7	8.7
40°-50°	7242.9	15.3
50°-60°	11461.1	24.3
60°-70°	13127.2	27.8
70°-80°	5445.1	11.5
80°-90°	562.4	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°	47197.8	100.0
0°-180°	47197.8	100.0

Coefficient of Utilization



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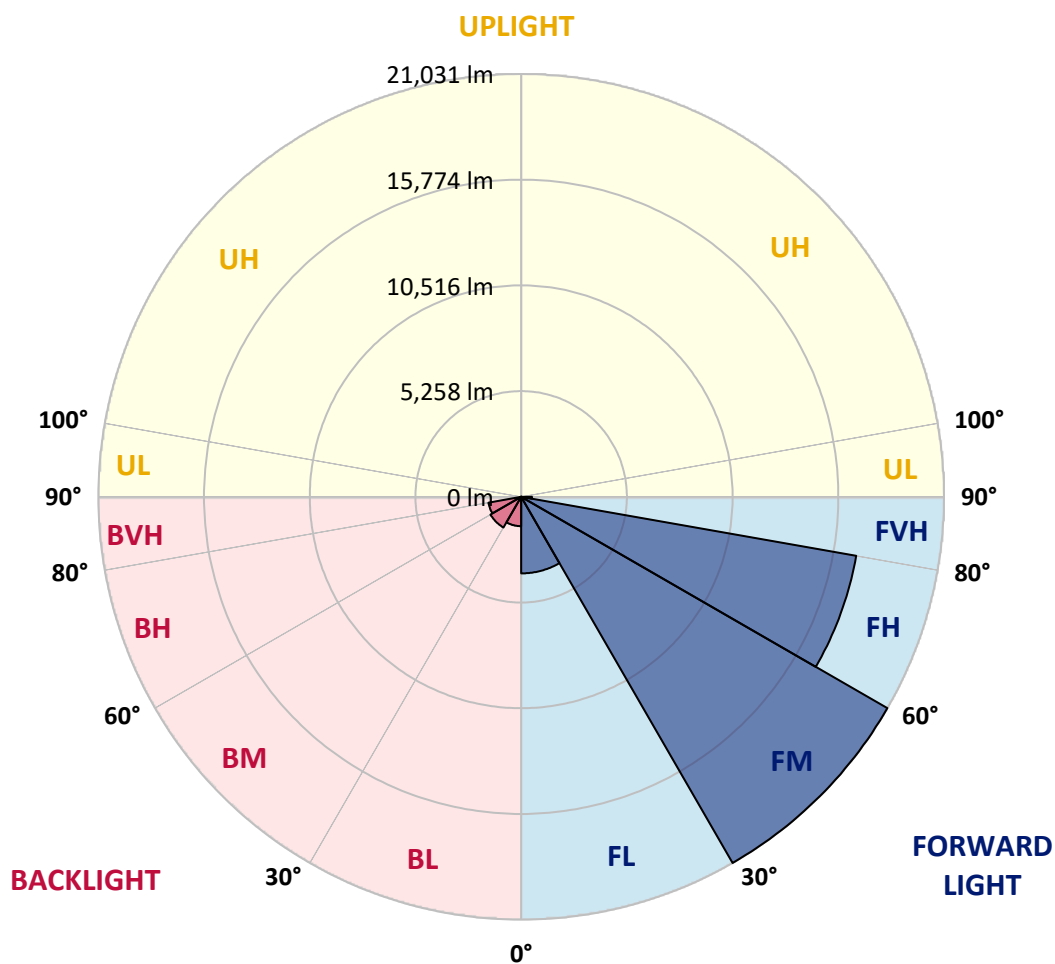
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3808.1	8.1			
FM	(30°-60°)	21031.5	44.6			
FH	(60°-80°)	16920.5	35.9			G5
FVH	(80°-90°)	537.1	1.1			G4/750
BL	(0°-30°)	1462.3	3.1	B3/2500		
BM	(30°-60°)	1761.2	3.7	B2/2500		
BH	(60°-80°)	1651.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	25.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9
2.5°	10761.3	10783.3	10780.5	10797.0	10835.6	10838.3	10799.7	10725.4	10708.9	10612.6	10444.6
5°	9924.3	9987.6	10026.1	10183.1	10359.3	10571.3	10731.0	10788.8	10780.5	10711.7	10458.4
7.5°	8969.1	9032.4	9076.3	9261.0	9494.8	9858.3	10273.9	10615.3	10645.5	10720.0	10447.4
10°	8333.1	8344.1	8404.8	8580.9	8826.0	9197.6	9693.1	10290.5	10381.4	10653.9	10419.8
12.5°	7810.1	7818.4	7898.2	8088.1	8349.7	8724.1	9244.3	9935.4	10075.8	10571.3	10414.4
15°	7438.5	7468.8	7540.3	7738.5	8016.6	8388.2	8922.2	9673.9	9841.7	10541.0	10463.9
17.5°	7314.6	7347.5	7369.6	7512.7	7766.0	8129.4	8677.3	9503.2	9693.1	10557.5	10560.2
20°	7444.0	7468.8	7419.1	7455.0	7611.9	7936.7	8470.8	9357.3	9583.0	10576.9	10684.1
22.5°	7925.6	7936.7	7801.8	7644.9	7617.3	7796.3	8308.4	9241.5	9483.9	10629.1	10830.1
25°	8751.5	8732.3	8512.1	8173.4	7854.1	7771.5	8212.0	9170.0	9434.3	10684.1	10981.4
27.5°	9748.1	9775.7	9472.9	8980.1	8371.7	7936.7	8198.3	9139.7	9412.2	10722.7	11113.7
30°	10959.5	10998.0	10651.1	10031.7	9158.9	8344.1	8324.9	9134.3	9398.5	10697.9	11124.7
32.5°	12195.5	12242.3	11969.8	11331.1	10210.6	9026.9	8611.2	9194.8	9426.1	10612.6	11061.3
35°	13489.3	13555.5	13373.8	12826.0	11636.6	10012.4	9115.0	9379.3	9555.5	10604.2	10998.0
37.5°	15276.1	15336.6	14995.3	14414.3	13362.7	11333.9	9924.3	9726.1	9860.9	10736.5	11014.5
40°	17943.6	17935.4	17054.5	16165.2	15259.5	13013.1	11061.3	10353.9	10422.7	11135.6	11218.2
42.5°	20850.7	20837.0	19534.9	18183.2	17365.5	15080.6	12556.2	11438.5	11391.7	11870.7	11746.8
45°	23091.6	23088.8	22026.2	20503.9	19901.0	17453.6	14488.8	12947.1	12875.5	13065.4	12721.4
47.5°	24046.9	24063.5	23529.4	22458.5	22711.7	20663.5	16925.1	15133.0	15025.6	14948.5	14425.4
50°	23303.6	23336.6	23380.7	23171.4	24773.7	24977.4	20192.9	18213.4	18161.2	17817.0	16999.4
52.5°	20875.5	21043.5	21561.0	22224.4	25489.4	29117.8	25316.0	22040.0	21759.2	21393.1	20492.8
55°	16784.6	16969.2	17952.0	19562.5	24424.1	31837.7	32495.7	26973.3	26505.3	25412.4	24113.0
57.5°	11108.1	11394.4	12820.5	14868.6	21329.8	32275.4	39658.8	33819.9	32190.1	29197.7	27733.1
60°	6119.8	6395.1	7942.3	9797.8	15405.4	30111.7	44476.5	42733.9	39854.3	33429.0	32129.6
62.5°	3768.8	3917.4	5059.9	6786.0	9238.9	23766.1	45473.0	53935.7	50601.8	38876.9	37440.0
65°	3000.7	3064.0	3622.8	5547.2	6623.7	14136.3	42254.8	62475.2	61363.0	45473.0	42194.3
67°	2912.7	2937.4	3201.7	4762.6	6243.6	8666.2	35400.0	63865.5	64994.2	49464.8	42343.0
67.5°	2931.9	2959.4	3209.9	4545.0	6232.7	7964.2	33038.1	63317.6	64743.6	49781.4	41685.0
70°	2827.3	2912.7	3675.2	4542.4	5927.1	6618.1	19785.3	54860.6	56344.4	46254.9	35369.7
72.5°	1002.0	1007.6	1588.4	3675.2	6444.6	6689.6	9935.4	40217.7	41316.1	35383.5	25500.4
75°	594.6	506.5	528.6	1046.1	6158.3	6496.9	5731.6	25698.7	26108.9	20275.4	12914.0
77.5°	410.2	358.0	368.9	462.5	2345.5	6406.1	4553.4	13401.3	12963.6	7110.8	2750.2
80°	234.1	206.5	220.2	404.7	853.5	5976.6	4294.6	5434.3	4633.2	1205.7	759.8
82.5°	123.9	104.6	126.6	333.1	594.6	3724.7	4302.8	2626.3	2081.2	407.4	517.6
85°	44.0	35.8	60.5	228.5	396.4	1142.6	3989.0	2207.9	1734.4	198.2	393.7
87.5°	8.3	8.3	24.8	93.6	159.6	349.6	2359.2	1310.3	878.2	118.3	269.8
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°	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9	10408.9
2.5°	10375.8	10257.5	10097.7	9902.2	9671.1	9467.4	9316.0	9158.9	9126.0	9070.9	9062.7
5°	10307.0	10103.3	9706.8	9252.6	8768.0	8330.4	7975.3	7658.6	7518.2	7397.2	7383.4
7.5°	10205.2	9899.6	9225.1	8492.8	7735.8	7047.6	6463.9	6051.0	5671.1	5489.4	5461.9
10°	10086.9	9649.0	8682.8	7666.9	6620.8	5649.0	4781.8	4055.0	3614.7	3353.0	3320.1
12.5°	9976.7	9404.1	8129.4	6810.7	5420.6	4121.2	3006.2	2312.5	1850.0	1662.8	1640.7
15°	9924.3	9205.8	7611.9	5935.3	4165.2	2623.6	1643.5	1271.9	1120.5	1076.4	1073.7
17.5°	9918.9	9037.9	7105.3	5029.6	2918.1	1525.1	1070.8	977.4	947.1	936.1	936.1
20°	9916.1	8878.2	6598.8	4090.8	1852.7	1015.8	892.0	869.9	847.9	834.2	834.2
22.5°	9946.4	8735.1	6070.2	3132.8	1167.2	823.2	784.6	762.5	735.0	715.7	713.0
25°	9976.7	8624.9	5530.7	2229.9	845.1	715.7	677.2	647.0	608.3	583.7	580.8
27.5°	9982.2	8487.3	4952.5	1492.1	707.5	625.0	575.4	528.6	484.6	459.8	457.0
30°	9899.6	8256.0	4311.2	1007.6	625.0	542.4	476.3	426.6	385.3	366.1	366.1
32.5°	9737.1	7969.8	3606.3	759.8	556.1	465.2	393.7	346.9	319.4	311.1	308.3
35°	9591.3	7661.5	2882.4	644.2	498.3	393.7	322.1	291.8	275.4	272.5	269.8
37.5°	9505.9	7413.7	2202.3	583.7	443.3	330.4	272.5	250.5	242.2	236.8	239.5
40°	9571.9	7207.2	1627.0	534.1	388.2	275.4	231.2	220.2	212.0	209.2	209.2
42.5°	9860.9	7171.4	1208.5	490.0	335.9	228.5	200.9	192.8	187.2	184.4	187.2
45°	10620.9	7391.6	938.7	448.7	283.5	192.8	170.7	167.9	165.2	165.2	165.2
47.5°	11763.3	7845.9	781.9	402.0	236.8	165.2	148.7	145.9	143.1	145.9	145.9
50°	13698.6	8677.3	699.3	355.1	195.5	140.4	126.6	126.6	126.6	126.6	129.4
52.5°	16641.5	10312.6	644.2	308.3	159.6	118.3	107.4	107.4	110.2	110.2	112.9
55°	19920.2	12481.8	594.6	261.5	134.9	99.1	88.1	90.8	93.6	96.3	96.3
57.5°	23477.1	14885.2	553.3	214.7	115.6	79.9	74.3	77.0	79.9	85.3	85.3
60°	27768.9	17486.6	492.8	167.9	96.3	63.4	57.8	63.4	71.6	77.0	79.9
62.5°	32481.9	20002.8	415.7	132.1	79.9	49.6	46.8	57.8	68.9	74.3	77.0
65°	35702.8	20792.9	319.4	107.4	60.5	35.8	38.6	52.3	66.1	74.3	74.3
67°	34398.0	18852.1	261.5	90.8	49.6	27.6	35.8	52.3	66.1	71.6	74.3
67.5°	33492.3	18092.4	250.5	88.1	46.8	27.6	35.8	52.3	66.1	74.3	74.3
70°	27251.3	13591.3	209.2	66.1	38.6	24.8	30.3	49.6	63.4	71.6	71.6
72.5°	18934.7	8379.9	187.2	46.8	33.0	22.1	27.6	46.8	60.5	68.9	71.6
75°	9002.1	3033.7	159.6	35.8	30.3	19.2	24.8	46.8	60.5	68.9	68.9
77.5°	1836.2	704.7	129.4	30.3	24.8	19.2	22.1	44.0	57.8	66.1	66.1
80°	602.9	272.5	96.3	27.6	24.8	19.2	22.1	41.3	57.8	63.4	66.1
82.5°	435.0	137.6	63.4	27.6	24.8	19.2	19.2	41.3	55.0	63.4	63.4
85°	333.1	96.3	41.3	27.6	24.8	19.2	19.2	38.6	52.3	60.5	60.5
87.5°	220.2	38.6	33.0	27.6	24.8	19.2	19.2	38.6	49.6	57.8	60.5
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)