

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: P192026

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192026
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-08-LED-E1-SL4-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA 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: 42474 lumens
Efficiency: N/A
Efficacy: 83.1 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): 511
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

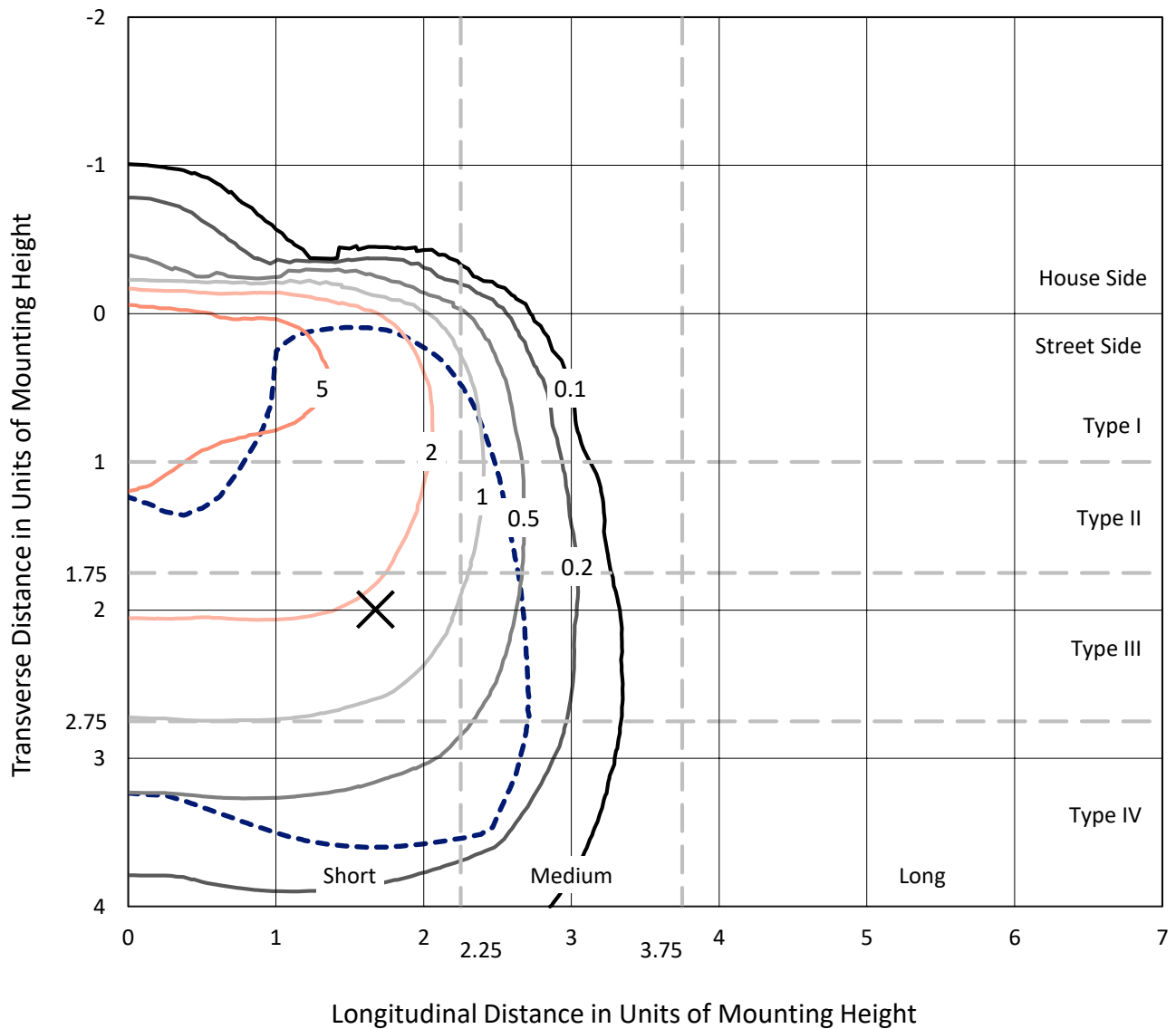


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

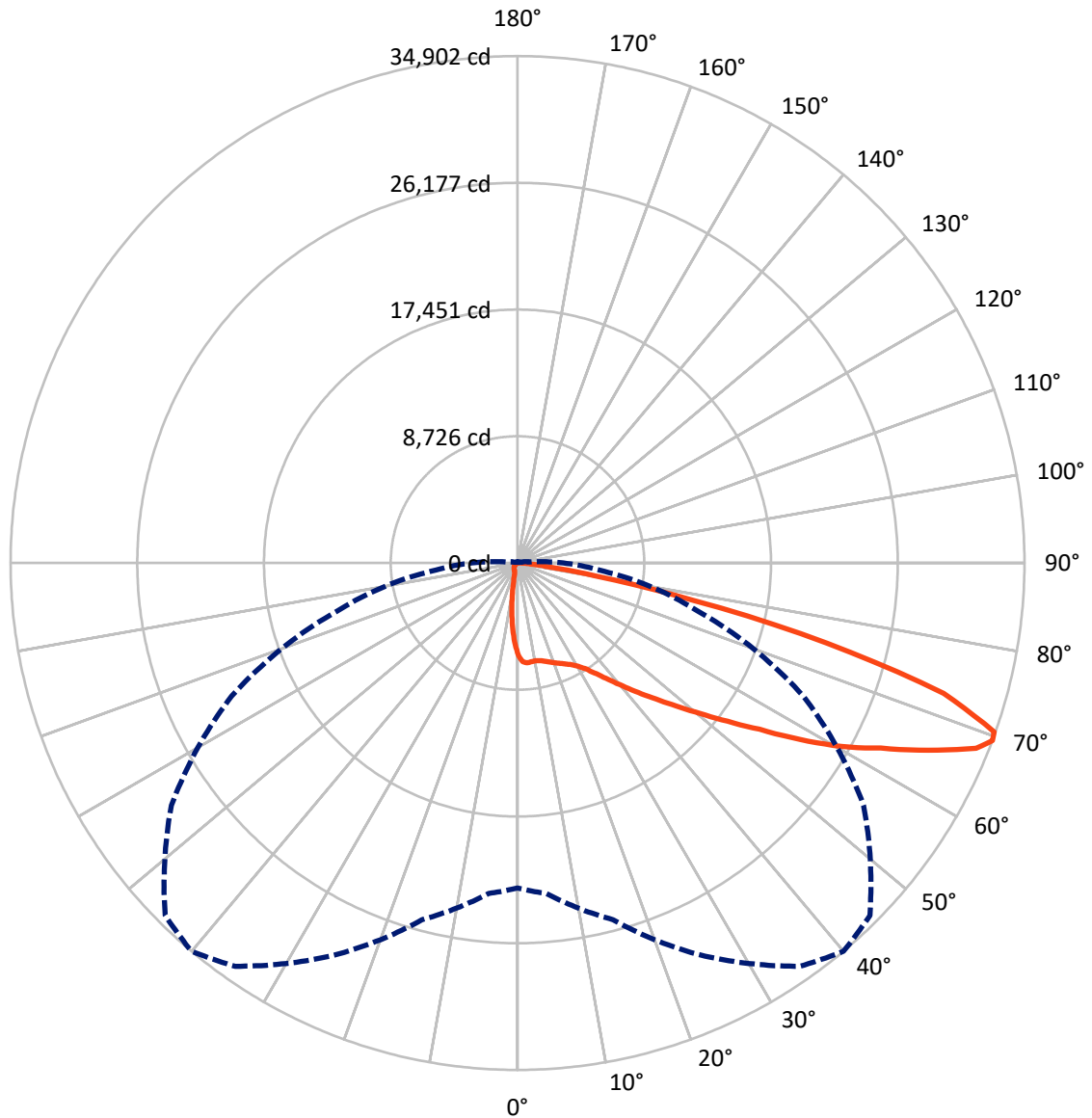


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Semi-Cutoff

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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	2485.0	0.0	2485.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	39989.0	0.0	39989.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	42474.0	0.0	42474.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.5	1.2
10°-20°	1265.3	3.0
20°-30°	2131.2	5.0
30°-40°	3488.8	8.2
40°-50°	6040.8	14.2
50°-60°	9514.9	22.4
60°-70°	12426.1	29.3
70°-80°	6400.0	15.1
80°-90°	692.3	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°	42474.0	100.0
0°-180°	42474.0	100.0



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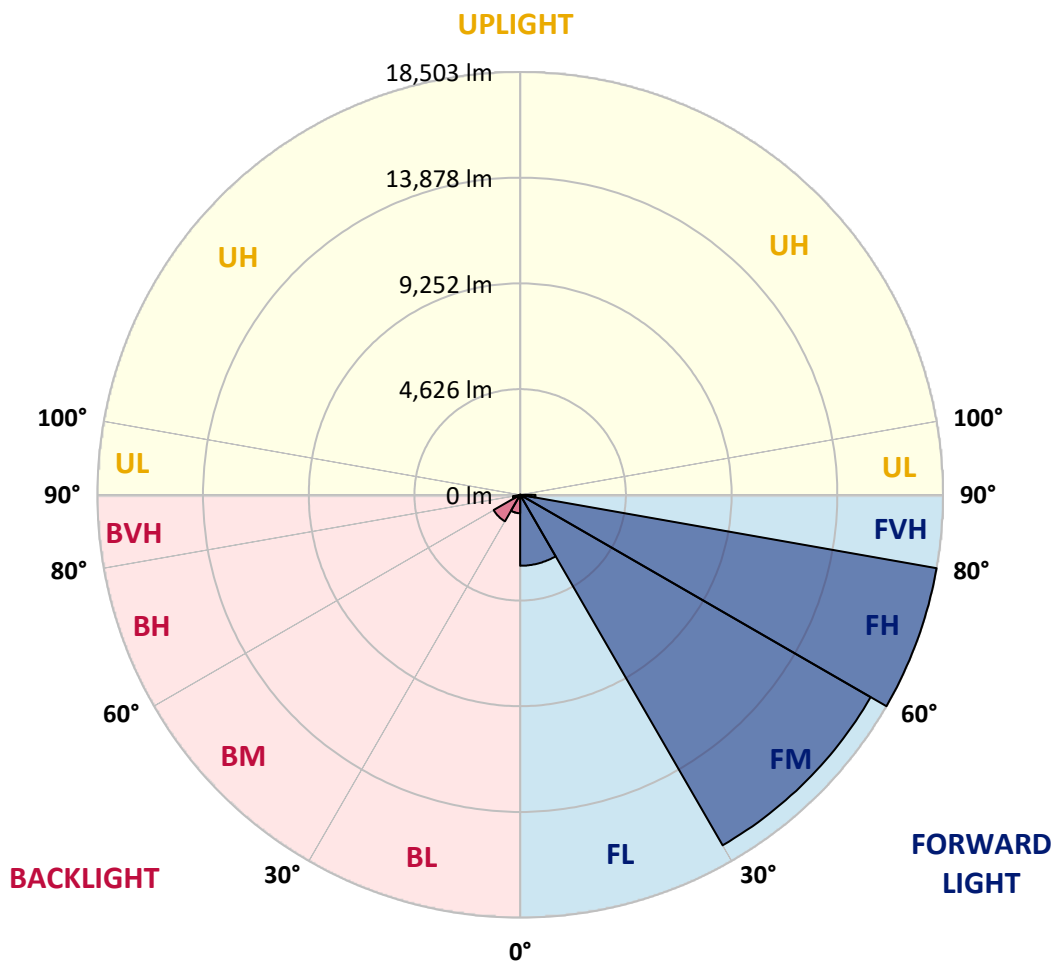
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3106.1	7.3			
FM	(30°-60°)	17709.0	41.7			
FH	(60°-80°)	18503.4	43.6			G5
FVH	(80°-90°)	670.6	1.6			G4/750
BL	(0°-30°)	805.0	1.9	B2/1000		
BM	(30°-60°)	1335.6	3.1	B2/2500		
BH	(60°-80°)	322.7	0.8	B1/500		G1/500
BVH	(80°-90°)	21.7	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°	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8
2.5°	6967.8	6929.9	6907.1	6876.8	6838.8	6806.0	6793.3	6699.8	6611.3	6489.9	6350.9
5°	7096.7	7084.1	7043.6	7003.2	6957.7	6907.1	6879.3	6768.0	6641.6	6464.7	6222.0
7.5°	7109.4	7094.2	7043.6	6988.0	6924.8	6864.1	6816.1	6704.8	6588.5	6409.0	6113.2
10°	7089.1	7071.4	7033.5	6972.8	6894.5	6836.3	6788.3	6682.1	6583.5	6421.7	6093.0
12.5°	7066.4	7048.7	7031.0	7000.6	6932.4	6891.9	6851.5	6750.3	6661.9	6525.3	6166.3
15°	7089.1	7079.0	7099.2	7086.6	7048.7	7013.3	6972.8	6881.8	6800.9	6687.1	6300.3
17.5°	7185.2	7185.2	7248.4	7256.0	7220.6	7170.0	7111.9	7020.9	6952.6	6856.5	6459.6
20°	7410.2	7402.6	7483.5	7498.7	7412.7	7334.4	7248.4	7137.2	7084.1	7023.4	6616.4
22.5°	7797.0	7761.6	7809.7	7794.5	7625.1	7503.8	7397.6	7261.0	7233.2	7205.4	6790.8
25°	8300.1	8279.9	8312.8	8163.6	7865.3	7701.0	7574.5	7420.3	7420.3	7448.1	6988.0
27.5°	9030.8	8955.0	8843.7	8580.8	8133.3	7923.4	7786.9	7622.6	7665.6	7769.2	7248.4
30°	9779.2	9695.7	9440.4	9035.9	8459.4	8239.5	8080.2	7908.3	8009.4	8199.0	7597.3
32.5°	10517.4	10423.9	10062.3	9551.6	8927.1	8707.2	8553.0	8363.4	8532.7	8851.3	8108.0
35°	11232.9	11149.5	10732.3	10130.6	9549.1	9367.1	9225.5	9061.1	9278.6	9723.5	8828.5
37.5°	12036.9	11945.8	11437.7	10785.4	10305.0	10173.6	10069.9	9905.6	10284.8	10937.1	9832.3
40°	13025.4	12871.2	12186.0	11536.3	11179.8	11116.6	11045.8	11023.0	11612.1	12514.7	11169.7
42.5°	14158.0	13905.2	12969.8	12327.6	12140.5	12186.0	12168.3	12269.5	13273.2	14476.6	12797.9
45°	15290.7	14964.5	13842.0	13172.0	13197.3	13356.6	13455.2	13859.7	15353.9	16726.7	14549.9
47.5°	16251.4	15930.3	14678.8	14084.7	14388.1	14701.6	14969.6	15735.6	17492.8	18941.4	15912.6
50°	17073.1	16769.7	15566.3	15088.4	15771.0	16276.7	16711.5	17846.7	19793.4	20627.8	16868.3
52.5°	17745.6	17543.3	16486.5	16238.8	17351.2	18091.9	18729.1	20089.2	21831.2	21998.0	17611.6
55°	18400.4	18256.3	17475.1	17606.5	19206.9	20215.7	21022.2	22468.3	23585.8	23140.8	18324.5
57.5°	19153.8	19022.3	18602.6	19340.9	21646.6	22915.8	23795.6	24576.8	25130.5	24308.8	18997.1
60°	19922.4	19846.5	19856.6	21267.4	24447.9	25666.5	26151.9	26354.2	26647.4	25408.6	19035.0
62.5°	20655.6	20799.7	21290.1	23411.3	27130.3	28065.8	28311.0	28510.7	28166.9	25583.1	17586.3
65°	21896.9	22132.0	23302.6	26280.9	30080.8	31081.9	31334.8	30649.6	28407.1	23327.9	14304.7
67.5°	22503.7	22933.5	25021.8	28955.7	32942.7	34055.1	33961.6	30788.7	25492.0	17788.6	9180.0
69°	22377.3	22834.9	25418.7	29774.9	33893.3	34902.1	34308.0	29087.2	21717.4	12886.3	5635.4
70°	21876.7	22339.4	25213.9	29744.5	34014.7	34813.6	33665.8	26986.2	18362.5	9422.7	3524.3
72.5°	18268.9	18668.4	22384.9	26885.1	31334.8	30685.0	28164.4	18696.2	8947.4	2566.1	793.9
75°	11245.5	11468.0	16061.8	20253.6	23666.7	21998.0	18764.5	9301.3	2667.3	725.6	439.9
77.5°	5941.3	6042.4	8793.2	11938.3	15002.5	12413.6	9617.4	3628.0	1228.7	455.1	318.6
80°	3511.7	3587.5	4735.4	5458.4	6492.5	5423.0	3845.4	2227.4	879.8	285.7	283.2
82.5°	2009.9	2058.0	3433.3	3033.9	2558.6	2184.4	1913.9	2111.1	528.4	192.1	293.3
85°	738.2	748.4	1931.6	2308.3	1522.0	905.1	950.6	1749.5	141.6	121.4	230.1
87.5°	343.8	336.3	993.6	1413.3	889.9	573.9	740.8	384.3	55.6	78.4	63.2
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°	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8	6345.8
2.5°	6270.0	6176.4	6007.1	5832.6	5655.6	5519.1	5385.1	5278.9	5243.5	5177.8	5182.9
5°	6077.8	5905.9	5552.0	5193.0	4818.8	4510.3	4219.6	3984.5	3870.7	3754.4	3754.4
7.5°	5911.0	5660.7	5107.0	4523.0	3918.7	3410.6	2953.0	2609.1	2419.5	2267.8	2265.3
10°	5847.8	5509.0	4735.4	3898.5	3056.6	2363.9	1820.3	1471.4	1291.9	1175.6	1170.6
12.5°	5875.6	5455.9	4449.7	3322.1	2265.3	1519.5	1054.3	829.3	753.4	718.0	718.0
15°	5956.5	5440.7	4164.0	2758.3	1600.4	950.6	700.3	639.6	634.6	634.6	634.6
17.5°	6055.1	5445.8	3870.7	2209.7	1089.7	680.1	604.2	596.7	601.7	601.7	601.7
20°	6156.2	5448.3	3554.7	1701.5	768.6	591.6	568.8	566.3	571.4	571.4	573.9
22.5°	6280.1	5461.0	3238.7	1271.7	634.6	558.7	541.0	541.0	543.6	543.6	541.0
25°	6421.7	5486.2	2910.0	943.0	579.0	536.0	520.8	518.3	520.8	518.3	515.8
27.5°	6598.7	5521.6	2543.4	738.2	553.7	513.2	500.6	500.6	498.1	495.5	493.0
30°	6821.1	5562.1	2131.3	627.0	528.4	493.0	480.4	477.8	475.3	470.2	470.2
32.5°	7159.9	5650.6	1724.2	568.8	500.6	465.2	455.1	455.1	450.0	445.0	442.4
35°	7680.7	5825.0	1360.2	533.5	470.2	434.9	422.2	422.2	417.2	414.6	412.1
37.5°	8401.3	6090.5	1056.8	500.6	439.9	402.0	389.3	386.8	381.8	376.7	374.2
40°	9359.5	6419.2	831.8	470.2	409.6	369.1	359.0	354.0	343.8	336.3	336.3
42.5°	10562.9	6793.3	675.0	437.4	374.2	338.8	331.2	323.6	305.9	298.3	295.8
45°	11822.0	7129.6	571.4	399.5	338.8	308.4	303.4	290.7	268.0	260.4	260.4
47.5°	12729.6	7208.0	503.1	364.1	305.9	275.6	273.0	250.3	230.1	225.0	222.5
50°	13295.9	7053.7	447.5	328.7	275.6	245.2	237.7	209.8	197.2	192.1	189.6
52.5°	13677.7	6778.2	402.0	298.3	247.8	217.4	199.7	179.5	169.4	164.3	164.3
55°	13983.6	6388.8	356.5	270.5	225.0	194.7	169.4	154.2	144.1	139.1	139.1
57.5°	14069.5	5860.4	311.0	247.8	202.3	171.9	144.1	134.0	121.4	118.8	118.8
60°	13445.1	4907.3	275.6	220.0	182.0	149.2	126.4	113.8	101.1	98.6	96.1
62.5°	11799.2	3797.4	242.7	194.7	159.3	128.9	108.7	93.5	83.4	83.4	83.4
65°	9000.5	2545.9	212.4	169.4	139.1	108.7	93.5	75.8	70.8	70.8	73.3
67.5°	5387.6	1385.5	182.0	144.1	118.8	91.0	78.4	65.7	63.2	65.7	65.7
69°	3157.7	814.1	164.3	128.9	103.7	80.9	68.3	58.1	63.2	65.7	65.7
70°	1949.3	548.6	151.7	116.3	93.5	73.3	63.2	55.6	60.7	63.2	63.2
72.5°	543.6	283.2	121.4	91.0	75.8	60.7	50.6	50.6	58.1	60.7	60.7
75°	354.0	209.8	93.5	68.3	58.1	48.0	43.0	48.0	55.6	58.1	58.1
77.5°	293.3	171.9	75.8	55.6	48.0	45.5	40.5	43.0	50.6	53.1	53.1
80°	268.0	121.4	60.7	50.6	43.0	40.5	37.9	35.4	45.5	48.0	48.0
82.5°	255.4	96.1	53.1	45.5	40.5	35.4	32.9	35.4	40.5	43.0	45.5
85°	159.3	63.2	48.0	43.0	35.4	32.9	32.9	32.9	37.9	40.5	40.5
87.5°	58.1	50.6	43.0	35.4	30.3	30.3	30.3	30.3	32.9	37.9	37.9
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)