

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: P651499

Luminaire Tested: **GALN-SA7D-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37126.8 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

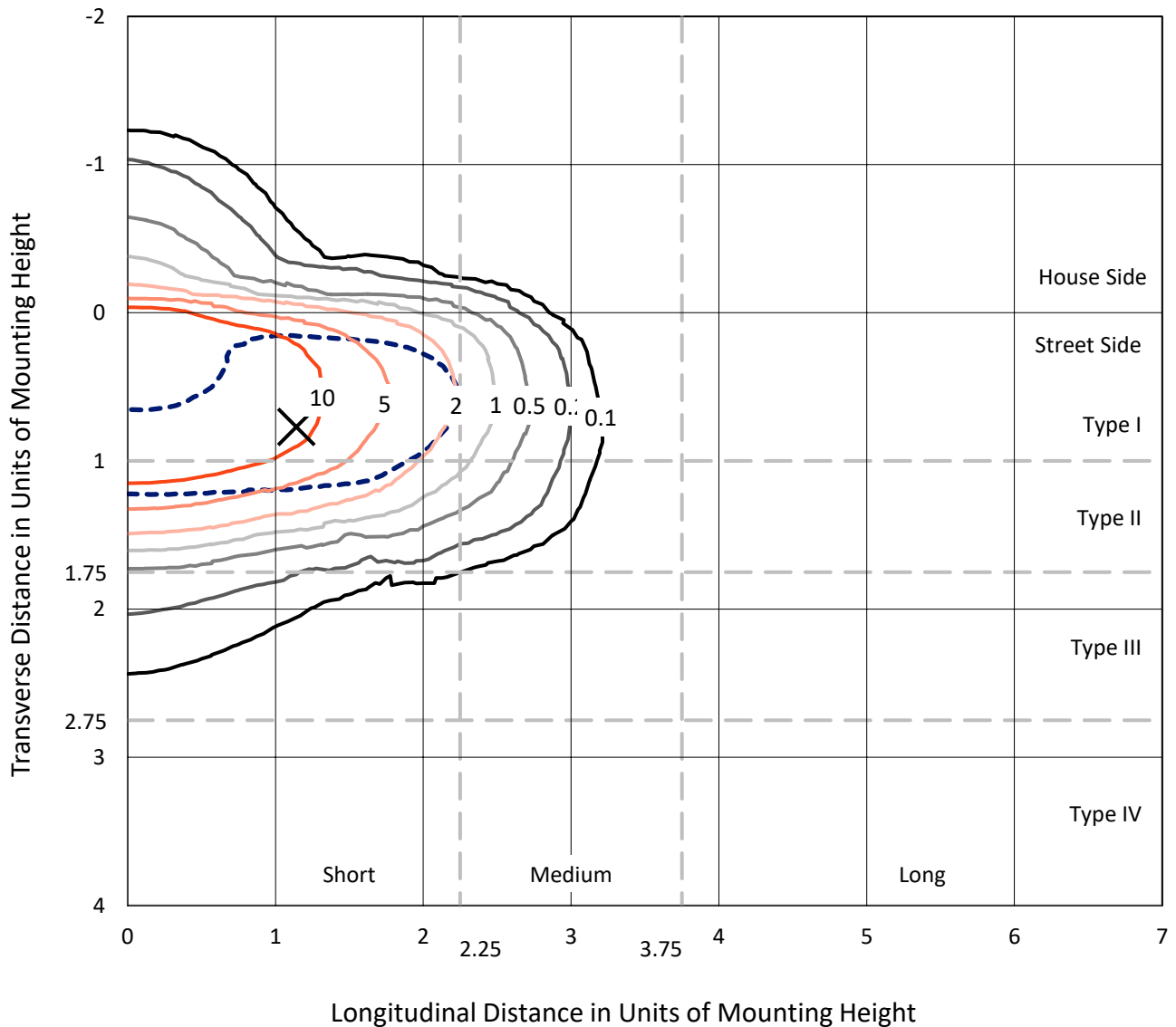
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

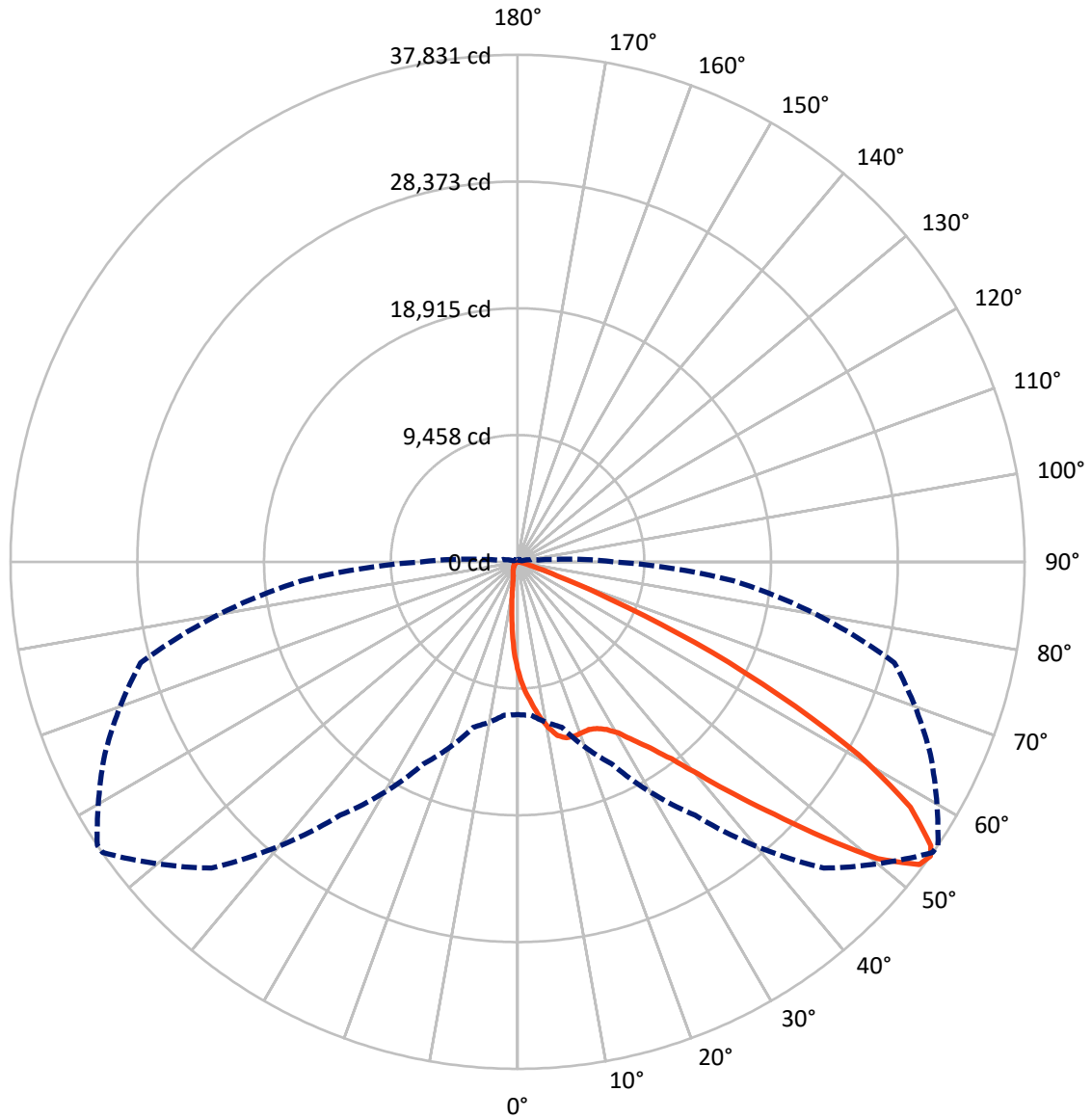
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1755.6	0.0	1755.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	35371.2	0.0	35371.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	37126.8	0.0	37126.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.9	2.0
10°-20°	1970.4	5.3
20°-30°	3412.6	9.2
30°-40°	5890.7	15.9
40°-50°	10026.2	27.0
50°-60°	9922.2	26.7
60°-70°	4528.7	12.2
70°-80°	581.6	1.6
80°-90°	65.5	0.2
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°	37126.8	100.0
0°-180°	37126.8	100.0

Coefficient of Utilization



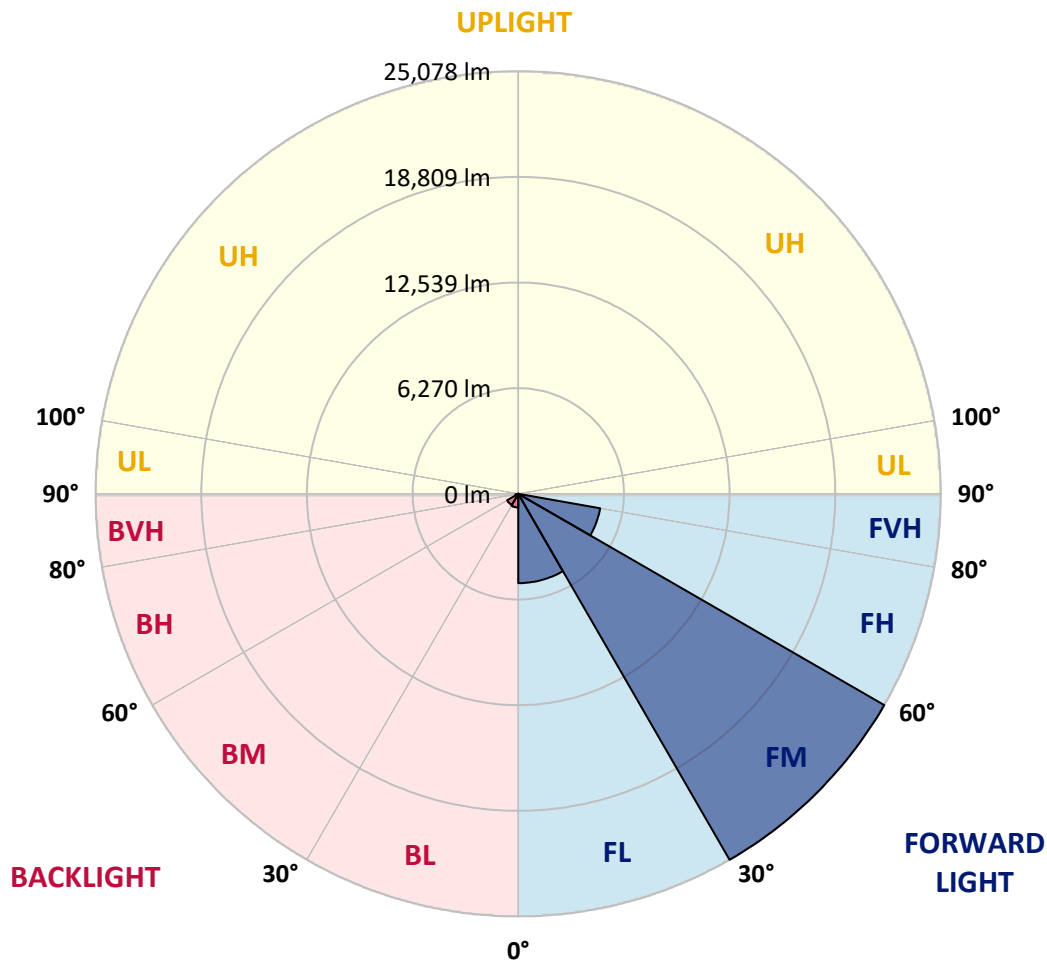
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5300.0	14.3			
FM (30°-60°)	25078.2	67.5			
FH (60°-80°)	4934.5	13.3			G2/5000
FVH (80°-90°)	58.5	0.2			G1/100
BL (0°-30°)	811.9	2.2	B2/1000		
BM (30°-60°)	760.9	2.0	B1/1000		
BH (60°-80°)	175.8	0.5	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5
2.5°	10482.8	10410.2	10310.0	10232.4	10049.5	9786.5	9508.4	9508.4	9240.4	8867.2	8486.4
5°	12091.0	12043.4	11945.6	11745.3	11539.9	11171.7	10613.1	10515.4	10037.0	9360.7	8649.3
7.5°	12744.8	12767.3	12772.3	12719.7	12622.0	12258.8	11705.2	11637.6	10873.6	9966.9	8862.2
10°	12118.5	12228.7	12336.5	12554.4	12862.4	12950.1	12637.0	12566.9	11815.5	10580.5	9092.6
12.5°	11186.7	11246.9	11306.9	11650.1	12268.8	12977.6	13305.8	13303.3	12667.1	11191.7	9385.7
15°	10753.4	10805.9	10811.0	10963.8	11499.8	12531.8	13591.4	13628.9	13498.7	11945.6	9701.4
17.5°	10843.5	10886.2	10851.1	10888.6	11169.2	12040.8	13558.8	13684.1	14172.5	12669.6	9986.9
20°	11432.2	11514.8	11379.6	11274.4	11359.6	11910.6	13448.6	13623.9	14648.5	13375.9	10247.4
22.5°	12489.3	12534.3	12364.0	12075.9	11925.6	12183.7	13418.6	13591.4	15054.2	13954.5	10397.7
25°	13664.0	13649.0	13461.1	13138.0	12822.4	12734.7	13616.4	13771.7	15389.9	14475.6	10442.8
27.5°	14838.8	14883.8	14568.3	14167.5	13789.3	13561.3	14059.8	14175.0	15768.1	15069.2	10497.9
30°	16204.0	16131.3	15820.7	15362.3	14928.9	14610.9	14773.7	14806.2	16289.1	15855.8	10643.2
32.5°	17979.9	17779.5	17431.3	16629.8	16319.2	15780.6	15820.7	15860.8	16922.9	16634.8	10818.5
35°	20389.5	20379.5	19698.2	18618.6	17862.2	17193.3	17018.1	17050.6	17882.2	17792.0	11206.7
37.5°	23290.1	23330.3	22553.8	21466.7	20073.9	19011.9	18651.2	18656.2	19340.1	19390.1	11797.9
40°	25652.3	25757.5	25294.1	24560.1	23185.0	21524.3	20918.1	20862.9	21389.0	21326.4	12642.0
42.5°	26669.3	26766.9	26939.8	27195.2	26438.8	25068.6	23638.4	23713.5	23873.8	23435.5	13588.9
45°	26170.7	26326.1	27004.9	28583.0	29294.3	28833.4	27127.6	26864.7	26185.8	25727.5	14540.7
47.5°	24094.2	24472.5	25607.2	28234.8	30724.6	32282.6	31065.3	30717.1	28500.3	27400.7	15146.9
50°	20680.1	20702.6	22283.2	25642.3	29983.2	34459.4	35085.6	34825.1	30657.0	28340.0	15452.4
52.5°	14991.6	15485.1	16932.9	20822.9	26772.0	34128.7	37648.0	37540.3	32881.3	28820.9	15893.3
54°	11397.1	11492.3	12779.8	16639.8	23082.3	32312.7	37805.9	37830.9	33985.9	29111.5	16153.8
55°	9343.1	9115.2	10467.8	14175.0	20564.9	30707.1	37289.9	37410.1	34481.9	29261.8	16346.7
57.5°	4428.6	4431.1	5465.6	7477.0	12880.0	23843.8	34136.3	34562.1	34537.0	29519.8	16940.3
60°	2241.9	2256.9	2484.8	3451.7	6362.3	15850.7	28224.8	29239.2	31879.4	29557.4	17135.7
62.5°	1568.0	1550.5	1513.0	1660.7	2677.7	8055.6	21013.3	21895.0	27085.1	28127.1	16514.5
65°	1342.6	1305.1	1199.9	1177.3	1352.7	3208.8	13087.9	14525.7	20680.1	24354.8	14746.1
67.5°	1147.2	1132.2	1037.0	979.4	956.9	1397.7	6753.1	7509.5	14134.9	17506.5	11169.2
70°	974.4	966.9	909.3	836.6	774.0	836.6	2504.8	3103.5	7877.8	9425.8	5270.2
72.5°	791.5	799.0	809.0	716.4	651.3	593.7	1069.6	1244.9	3296.4	3369.0	1843.6
75°	693.8	686.3	686.3	623.7	543.5	440.9	588.6	633.7	1009.5	936.8	428.3
77.5°	488.5	470.9	551.1	513.5	453.4	313.1	335.6	355.7	418.3	358.2	200.4
80°	338.2	338.2	353.2	460.9	408.3	227.9	205.4	220.4	248.0	212.9	115.2
82.5°	190.4	195.4	230.4	245.5	238.0	152.8	135.2	137.8	165.3	145.2	72.7
85°	22.5	37.6	132.8	130.3	97.7	67.6	75.2	77.6	102.7	90.2	42.6
87.5°	2.5	5.0	27.6	35.1	25.1	27.6	27.6	27.6	35.1	40.1	30.0
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°	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5	8248.5
2.5°	8281.1	8090.7	7637.3	7111.3	6775.7	6229.6	5768.7	5435.6	5352.9	5192.6	5240.2
5°	8271.1	7875.3	6950.9	5974.1	4932.0	4155.5	3576.9	3121.0	2920.7	2787.9	2695.2
7.5°	8276.0	7657.4	6174.5	4618.9	3374.0	2612.6	2076.5	1798.5	1613.1	1535.5	1545.5
10°	8291.1	7411.9	5272.7	3421.6	2276.9	1688.3	1360.1	1227.4	1164.8	1154.8	1152.3
12.5°	8326.2	7143.9	4411.0	2539.9	1593.1	1227.4	1102.1	1057.1	1037.0	1037.0	1029.5
15°	8363.7	6848.3	3694.7	1888.6	1227.4	1054.5	996.9	974.4	961.9	961.9	959.3
17.5°	8363.7	6507.7	3025.8	1465.4	1057.1	969.4	924.3	894.2	884.2	884.2	881.7
20°	8311.1	6111.9	2432.3	1179.8	959.3	889.2	844.1	811.6	799.0	794.1	791.5
22.5°	8128.3	5583.3	1936.2	1014.5	879.2	819.0	761.4	723.9	713.9	708.9	711.4
25°	7802.6	4987.2	1533.0	891.7	806.6	733.9	683.8	656.2	646.2	646.2	648.7
27.5°	7467.0	4363.4	1214.8	799.0	718.9	653.8	613.7	596.2	593.7	601.1	603.7
30°	7156.4	3737.2	984.4	723.9	641.3	586.2	558.6	553.5	553.5	556.1	558.6
32.5°	6810.8	3188.7	824.1	658.8	578.6	531.0	516.0	516.0	521.0	521.0	526.0
35°	6592.8	2717.8	723.9	596.2	531.0	491.0	481.0	483.4	491.0	501.0	505.9
37.5°	6475.0	2342.0	658.8	546.1	485.9	458.4	448.3	453.4	470.9	488.5	491.0
40°	6485.1	2059.0	606.2	503.5	450.9	420.8	413.3	428.3	445.9	463.4	465.9
42.5°	6595.3	1848.6	556.1	453.4	420.8	378.2	375.8	390.7	398.3	415.8	418.3
45°	6725.6	1695.8	503.5	400.7	365.8	328.2	330.7	343.1	353.2	380.7	385.8
47.5°	6765.6	1590.6	443.4	340.7	300.6	288.0	290.6	298.1	318.2	343.1	345.7
50°	6810.8	1525.5	385.8	288.0	255.5	253.0	255.5	260.5	273.0	283.1	280.6
52.5°	7003.6	1523.0	338.2	250.4	217.9	222.9	225.5	222.9	212.9	197.9	192.8
54°	7183.9	1530.5	315.6	233.0	200.4	207.9	205.4	192.8	167.9	152.8	145.2
55°	7329.2	1538.0	303.1	220.4	190.4	192.8	195.4	170.3	137.8	122.7	117.7
57.5°	7614.8	1520.4	273.0	192.8	167.9	157.8	155.3	112.7	75.2	65.1	60.1
60°	7472.0	1372.7	248.0	165.3	142.8	127.7	105.2	62.7	37.6	27.6	27.6
62.5°	6910.9	1164.8	220.4	135.2	117.7	97.7	55.1	35.1	17.5	10.0	7.5
65°	6182.0	979.4	197.9	107.7	92.7	62.7	30.0	22.5	7.5	0.0	0.0
67.5°	4596.4	726.4	167.9	85.2	70.1	40.1	20.0	12.5	2.5	0.0	0.0
70°	2129.2	443.4	142.8	65.1	50.1	30.0	15.1	7.5	0.0	0.0	0.0
72.5°	611.2	278.0	117.7	47.6	35.1	25.1	12.5	5.0	2.5	0.0	0.0
75°	212.9	222.9	87.6	35.1	27.6	17.5	10.0	5.0	2.5	0.0	0.0
77.5°	127.7	180.3	55.1	30.0	22.5	15.1	10.0	5.0	2.5	2.5	0.0
80°	72.7	120.3	35.1	25.1	20.0	12.5	7.5	5.0	2.5	2.5	0.0
82.5°	40.1	57.6	27.6	22.5	17.5	12.5	7.5	5.0	2.5	2.5	2.5
85°	32.5	30.0	22.5	20.0	15.1	10.0	7.5	2.5	0.0	0.0	0.0
87.5°	25.1	20.0	20.0	20.0	15.1	10.0	7.5	2.5	0.0	0.0	0.0
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)