

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: P455023

Luminaire Tested: **GALN-SA6A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17253 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 182
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

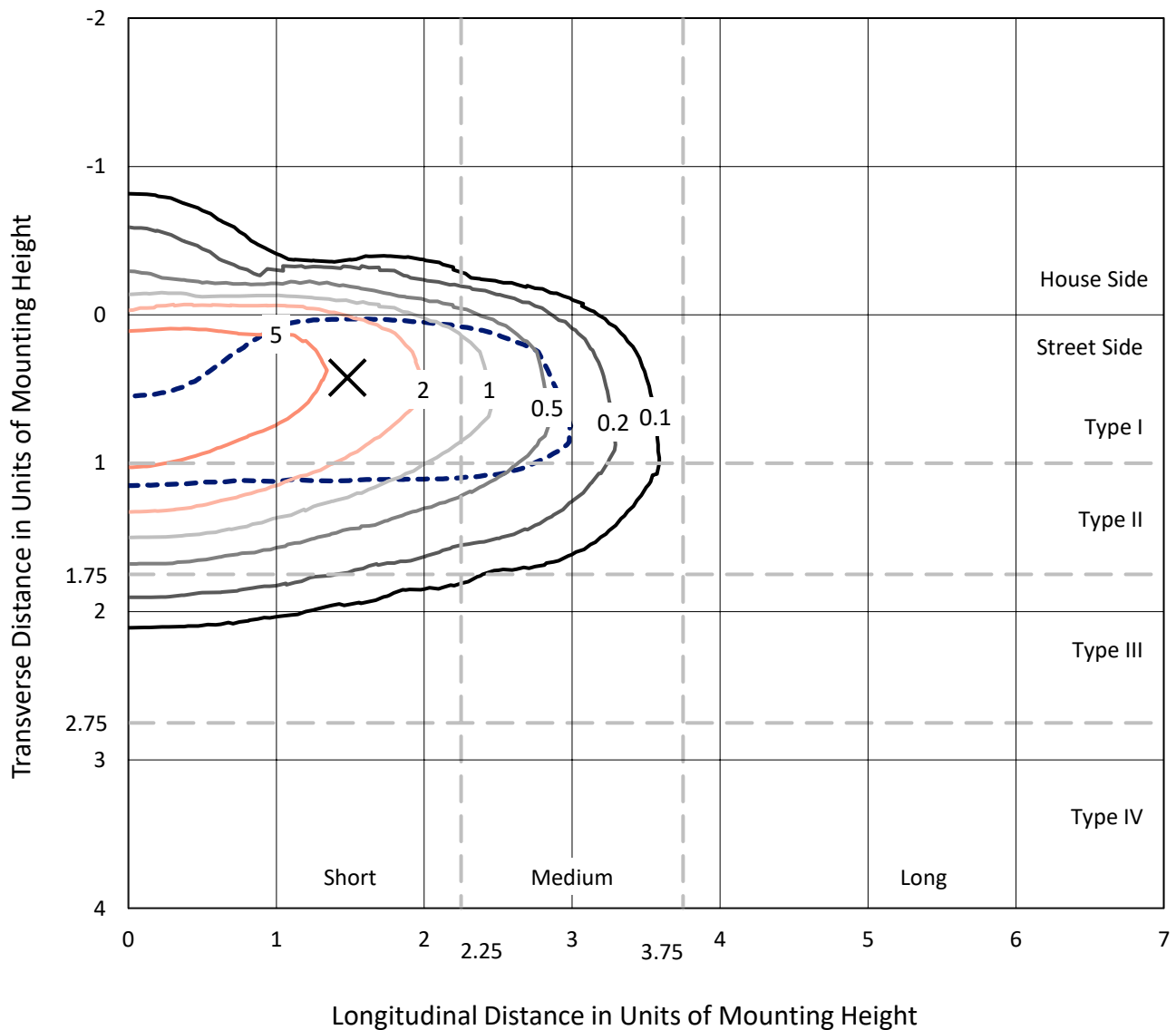


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

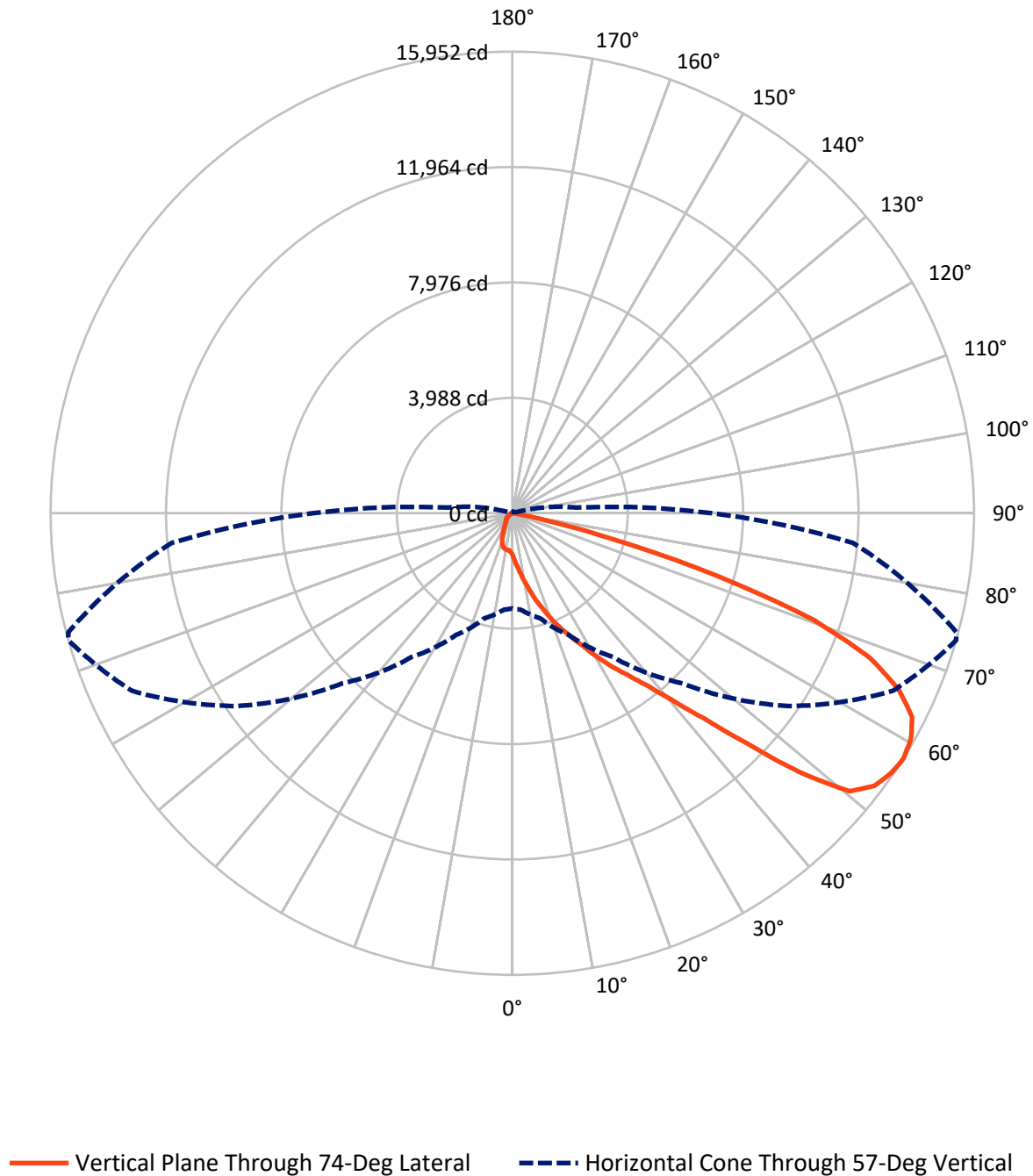


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.1	0.0	995.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16257.9	0.0	16257.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	17253.0	0.0	17253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.0
10°-20°	687.4	4.0
20°-30°	1470.9	8.5
30°-40°	2703.6	15.7
40°-50°	4144.6	24.0
50°-60°	4384.4	25.4
60°-70°	2863.2	16.6
70°-80°	782.3	4.5
80°-90°	42.1	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°	17253.0	100.0
0°-180°	17253.0	100.0

Coefficient of Utilization



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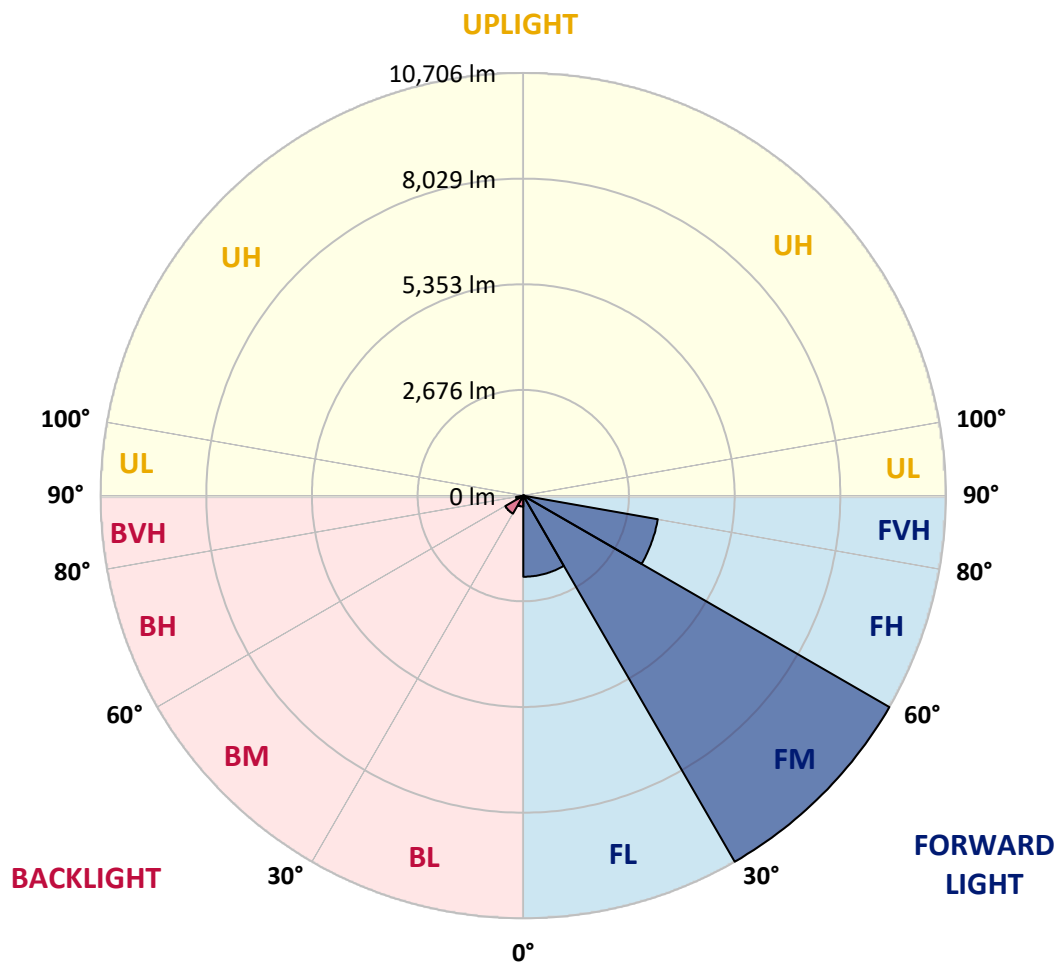
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2054.8	11.9			
FM	(30°-60°)	10705.8	62.1			
FH	(60°-80°)	3458.7	20.0			G2/5000
FVH	(80°-90°)	38.6	0.2			G1/100
BL	(0°-30°)	278.0	1.6	B1/500		
BM	(30°-60°)	526.8	3.1	B1/1000		
BH	(60°-80°)	186.8	1.1	B1/500		G1/500
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9
2.5°	2114.4	2095.3	2057.2	2044.1	1988.1	1901.1	1824.9	1722.5	1641.5	1633.1	1535.4
5°	2831.5	2788.6	2770.7	2684.9	2550.3	2424.1	2207.3	2042.9	1853.5	1839.2	1642.7
7.5°	3522.4	3462.8	3444.9	3363.9	3206.7	3007.8	2726.6	2427.6	2127.5	2100.1	1786.8
10°	4022.7	4031.0	3998.8	3945.2	3817.8	3615.3	3268.6	2860.1	2432.4	2397.9	1948.8
12.5°	4381.2	4380.0	4386.0	4384.8	4316.9	4163.2	3798.7	3328.2	2768.3	2700.4	2134.6
15°	4614.7	4618.3	4636.1	4698.1	4705.2	4609.9	4306.2	3776.1	3157.9	3073.3	2335.9
17.5°	4850.5	4875.6	4904.1	4962.5	5014.9	4976.8	4762.4	4243.0	3510.4	3447.3	2551.5
20°	5240.1	5274.6	5257.9	5293.7	5321.1	5324.6	5159.1	4674.2	3938.1	3832.1	2798.1
22.5°	5863.0	5861.9	5819.0	5754.7	5701.0	5698.7	5548.6	5117.4	4326.4	4224.0	3045.9
25°	6650.4	6654.0	6570.6	6387.2	6253.8	6090.6	5917.8	5505.7	4742.1	4615.9	3306.7
27.5°	7553.4	7530.7	7404.5	7151.9	6887.5	6608.7	6359.8	5957.2	5182.9	5078.1	3605.7
30°	8364.6	8356.2	8208.5	7900.0	7552.2	7272.2	6911.3	6523.0	5753.5	5624.8	3940.5
32.5°	9119.8	9131.7	8926.8	8607.6	8271.6	7948.8	7567.6	7063.8	6313.3	6131.1	4305.0
35°	9709.4	9721.3	9509.3	9243.7	8898.2	8630.2	8266.9	7640.3	6866.0	6712.4	4724.3
37.5°	10023.9	10039.4	9916.7	9716.6	9500.9	9366.3	9028.0	8382.4	7537.9	7445.0	5219.8
40°	10083.4	10101.3	10047.7	9994.1	9982.2	10078.7	9979.8	9256.8	8469.4	8324.1	5958.3
42.5°	9904.8	9928.6	9952.4	10071.5	10314.5	10668.3	11012.6	10443.2	9668.9	9473.6	6861.3
45°	9435.4	9433.1	9527.2	9835.7	10380.0	11135.3	12091.8	11928.6	11303.2	11070.9	8137.0
47.5°	8632.6	8620.7	8824.4	9263.9	10112.0	11221.0	12972.1	13732.1	13389.0	13174.6	9508.1
50°	7409.2	7467.6	7788.0	8401.5	9446.2	10961.4	13243.7	14914.9	15100.7	14873.2	10615.9
52.5°	5976.2	5973.8	6476.5	7309.2	8459.8	10389.6	13054.3	15129.3	15657.0	15483.1	11161.5
55°	4422.9	4453.9	4976.8	5816.6	7179.3	9346.1	12436.0	14909.0	15869.1	15746.4	11521.2
57°	3290.1	3344.9	3764.2	4652.8	6064.4	8313.3	11612.9	14514.7	15952.4	15885.7	11820.2
57.5°	3070.9	3073.3	3481.9	4289.5	5738.0	7916.7	11377.1	14350.3	15950.1	15913.1	11869.0
60°	1890.4	1950.0	2232.3	2899.4	4200.1	6178.7	9796.4	13405.7	15826.2	15879.8	12077.5
62.5°	1131.6	1156.6	1340.1	1747.5	2707.6	4509.9	8016.7	12196.6	15503.4	15666.6	12063.2
65°	727.8	733.8	817.2	1057.8	1692.7	3048.3	6177.5	10599.2	14668.3	14968.5	11591.5
67.5°	562.2	571.8	605.1	694.5	981.5	1898.8	4369.3	8894.6	13317.5	13704.7	10447.9
70°	499.1	503.9	515.8	544.4	649.2	1072.1	2718.3	6948.2	11043.5	11153.1	8176.3
72.5°	407.4	420.5	457.4	466.9	514.6	669.5	1512.8	4663.5	7419.9	7447.3	4574.2
75°	315.7	318.0	372.8	400.2	433.6	461.0	675.4	2351.4	3564.0	3373.5	1763.0
77.5°	235.9	246.6	271.6	306.1	353.8	330.0	302.6	886.2	1106.6	1086.4	512.2
80°	151.3	157.2	189.4	229.9	275.2	215.6	170.3	259.7	243.0	250.2	122.7
82.5°	76.2	77.4	121.5	187.0	175.1	108.4	107.2	106.0	90.5	89.3	57.2
85°	8.3	17.9	78.6	107.2	78.6	35.7	50.0	48.8	47.6	48.8	33.4
87.5°	1.2	1.2	13.1	15.5	10.7	11.9	14.3	15.5	19.1	17.9	14.3
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°	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9
2.5°	1487.8	1440.2	1352.0	1267.4	1204.3	1163.8	1111.4	1092.3	1064.9	1061.4	1048.2
5°	1552.1	1461.6	1307.9	1186.4	1088.7	1014.9	950.6	897.0	854.1	844.6	849.3
7.5°	1643.8	1509.2	1294.8	1129.3	993.5	867.2	764.7	701.6	656.3	639.7	642.1
10°	1747.5	1572.4	1292.4	1068.5	861.2	706.4	594.4	538.4	512.2	502.7	492.0
12.5°	1870.2	1645.0	1286.5	974.4	715.9	563.4	483.6	450.3	425.3	418.1	418.1
15°	2008.4	1722.5	1257.9	857.7	581.3	465.8	412.2	385.9	377.6	370.5	370.5
17.5°	2152.5	1798.7	1198.3	713.5	482.4	399.0	365.7	350.2	338.3	330.0	330.0
20°	2316.9	1873.7	1103.0	586.1	407.4	356.2	330.0	312.1	302.6	295.4	293.0
22.5°	2472.9	1934.5	981.5	481.2	355.0	320.4	296.6	277.5	268.0	264.4	264.4
25°	2634.9	1971.4	835.0	397.9	324.0	290.7	264.4	249.0	240.6	238.2	237.0
27.5°	2792.2	1992.9	706.4	347.8	295.4	263.3	238.2	226.3	218.0	215.6	216.8
30°	2982.7	1996.4	581.3	312.1	270.4	237.0	214.4	203.7	198.9	196.5	195.4
32.5°	3175.7	1991.7	488.4	290.7	246.6	214.4	195.4	187.0	183.4	179.9	179.9
35°	3392.5	1966.7	415.7	269.2	223.9	195.4	178.7	171.5	166.8	163.2	162.0
37.5°	3661.7	1953.6	374.0	245.4	203.7	177.5	162.0	154.9	151.3	146.5	145.3
40°	4085.8	2011.9	360.9	223.9	183.4	160.8	146.5	138.2	133.4	128.6	127.5
42.5°	4614.7	2114.4	339.5	202.5	165.6	145.3	131.0	121.5	113.2	107.2	104.8
45°	5299.6	2249.0	306.1	179.9	150.1	128.6	115.5	103.6	92.9	88.1	87.0
47.5°	6017.9	2378.8	276.4	162.0	133.4	114.4	100.1	87.0	77.4	73.9	72.7
50°	6458.6	2405.0	257.3	141.8	116.7	98.9	84.6	72.7	66.7	63.1	63.1
52.5°	6660.0	2363.3	231.1	123.9	101.3	87.0	72.7	63.1	59.6	57.2	56.0
55°	6800.5	2299.0	196.5	107.2	87.0	73.9	64.3	57.2	52.4	50.0	48.8
57°	6882.7	2212.0	170.3	94.1	75.0	64.3	57.2	51.2	46.5	41.7	41.7
57.5°	6886.3	2178.7	163.2	92.9	71.5	61.9	56.0	50.0	44.1	39.3	38.1
60°	6780.3	1950.0	131.0	78.6	57.2	52.4	46.5	39.3	31.0	26.2	25.0
62.5°	6439.6	1659.3	108.4	66.7	46.5	40.5	33.4	29.8	21.4	15.5	15.5
65°	5923.8	1346.0	92.9	53.6	38.1	29.8	22.6	21.4	13.1	7.1	6.0
67.5°	5178.1	1048.2	78.6	44.1	32.2	21.4	15.5	14.3	7.1	2.4	0.0
70°	3945.2	714.7	65.5	35.7	23.8	15.5	10.7	8.3	4.8	1.2	0.0
72.5°	2274.0	393.1	54.8	27.4	17.9	11.9	8.3	4.8	4.8	0.0	0.0
75°	812.4	169.1	41.7	20.3	14.3	9.5	6.0	2.4	3.6	1.2	0.0
77.5°	258.5	90.5	27.4	15.5	11.9	7.1	4.8	2.4	2.4	1.2	0.0
80°	76.2	47.6	16.7	13.1	8.3	6.0	3.6	1.2	2.4	1.2	0.0
82.5°	41.7	23.8	13.1	9.5	8.3	4.8	3.6	1.2	1.2	1.2	0.0
85°	21.4	14.3	10.7	9.5	8.3	4.8	3.6	1.2	0.0	1.2	1.2
87.5°	11.9	10.7	10.7	9.5	8.3	6.0	3.6	1.2	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)