

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: P456402

Luminaire Tested: **GALN-SA7C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 31847 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): 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

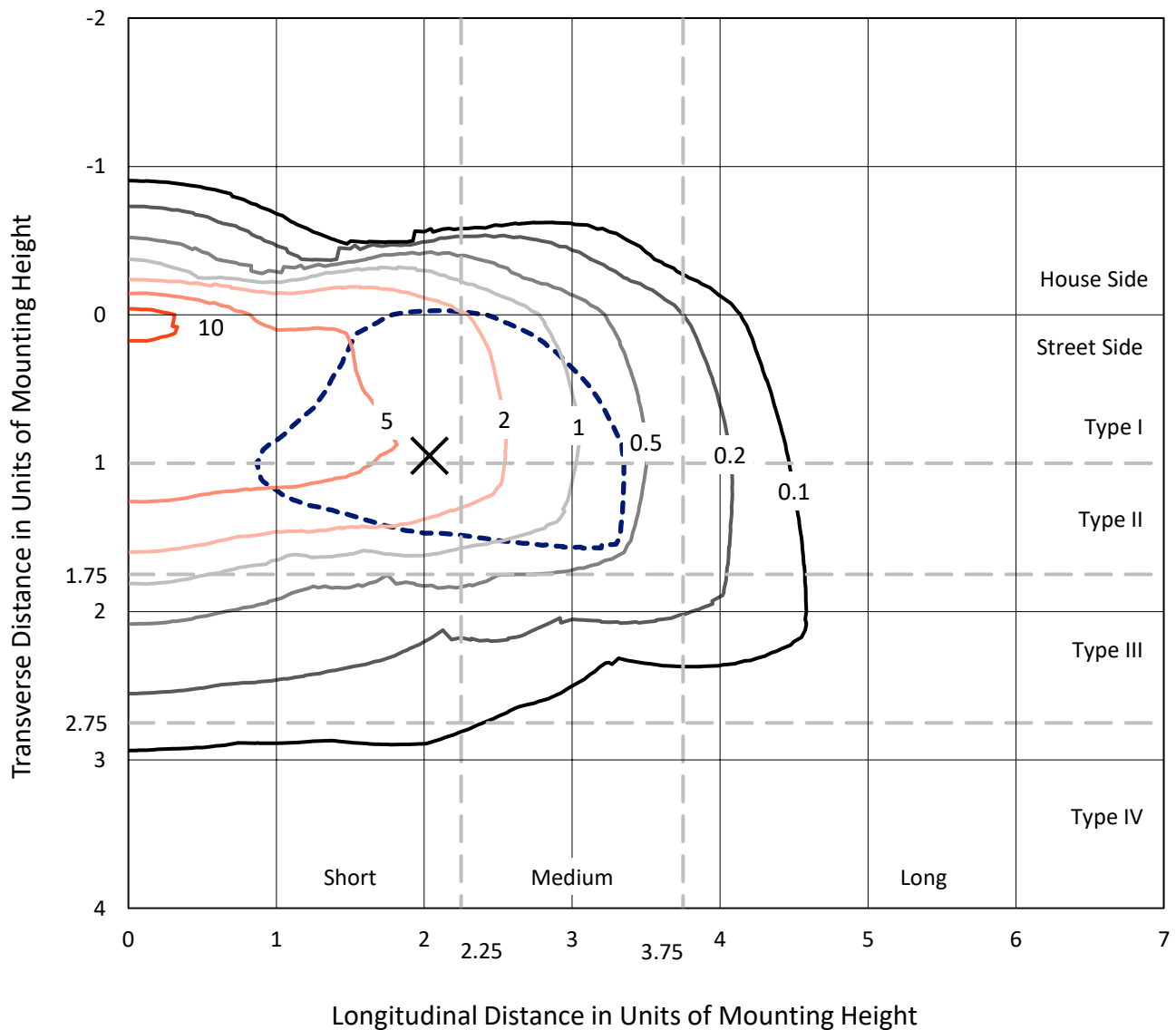


REPORT NUMBER: P456402

CATALOG NUMBER: GALN-SA7C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

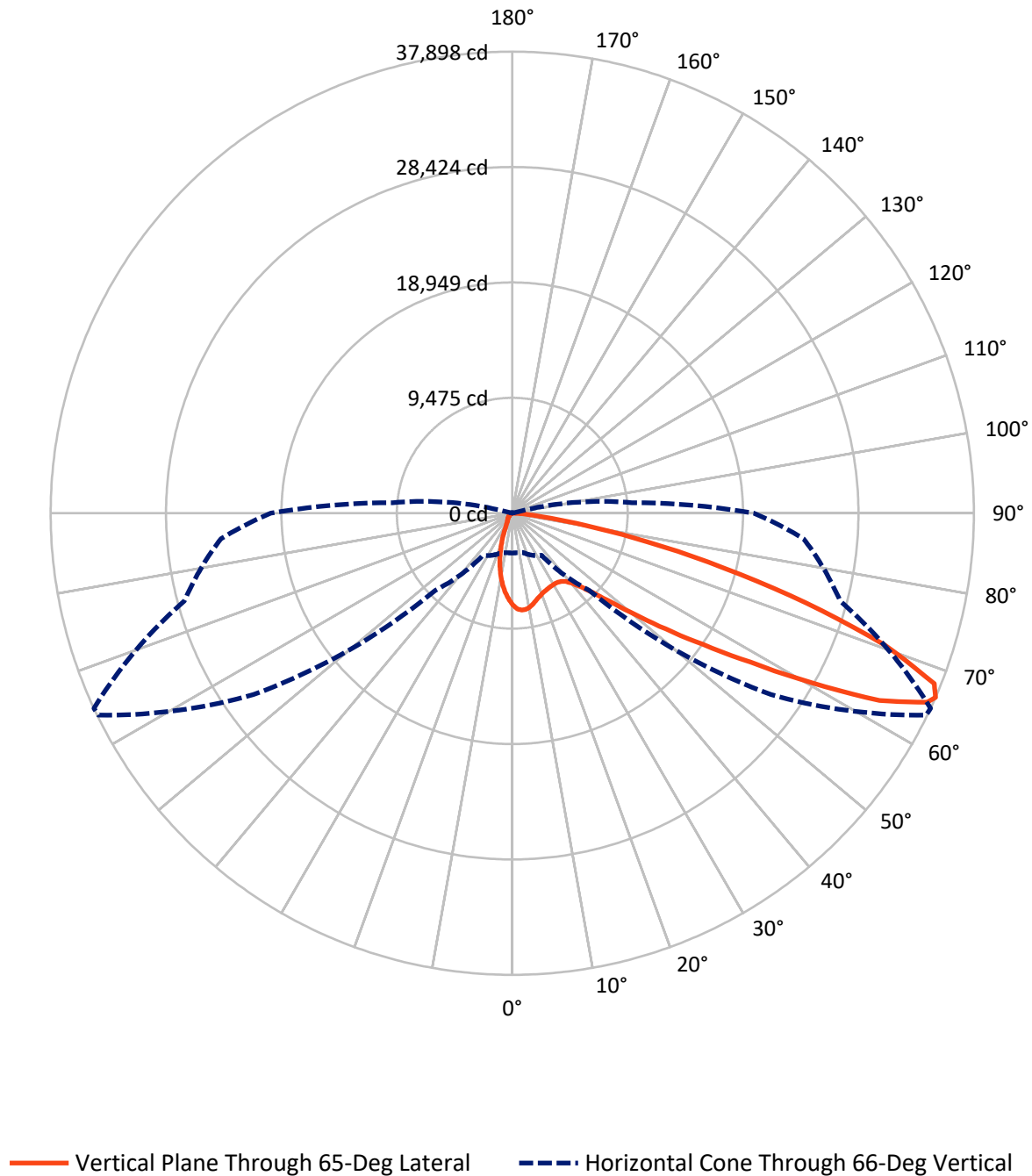
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

REPORT NUMBER: P456402
CATALOG NUMBER: GALN-SA7C-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P456402

CATALOG NUMBER: GALN-SA7C-830-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3293.4	0.0	3293.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	28553.6	0.0	28553.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	31847.0	0.0	31847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.6	1.9
10°-20°	1345.8	4.2
20°-30°	1927.8	6.1
30°-40°	2815.7	8.8
40°-50°	4721.5	14.8
50°-60°	7879.4	24.7
60°-70°	8363.7	26.3
70°-80°	3787.9	11.9
80°-90°	387.6	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°	31847.0	100.0
0°-180°	31847.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456402

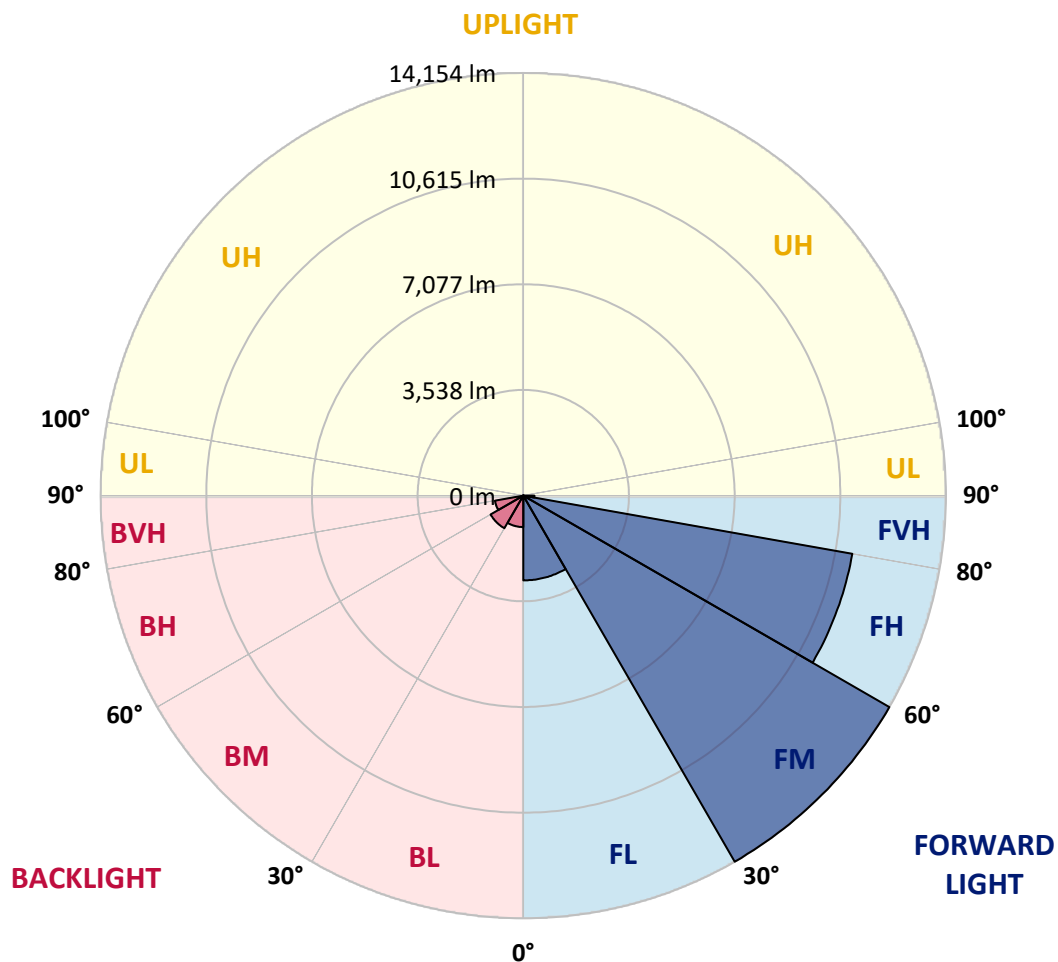
CATALOG NUMBER: GALN-SA7C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2837.7	8.9			
FM	(30°-60°)	14153.5	44.4			
FH	(60°-80°)	11187.1	35.1			G4/12000
FVH	(80°-90°)	375.2	1.2			G3/500
BL	(0°-30°)	1053.5	3.3	B3/2500		
BM	(30°-60°)	1263.1	4.0	B2/2500		
BH	(60°-80°)	964.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.3	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-G4

Type II Short



REPORT NUMBER: P456402

CATALOG NUMBER: GALN-SA7C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1
2.5°	7958.6	7967.2	7978.0	7993.0	8003.8	7971.5	7926.4	7874.7	7864.0	7754.3	7620.9
5°	7532.7	7545.6	7640.3	7691.9	7808.1	7913.5	7980.1	7988.7	7984.4	7881.2	7668.3
7.5°	6926.2	6962.7	7055.2	7145.6	7362.8	7562.9	7799.5	7965.1	7975.8	7947.9	7683.3
10°	6433.6	6457.2	6504.6	6683.1	6863.8	7169.2	7500.5	7812.4	7838.2	7950.0	7670.4
12.5°	6048.6	6083.0	6141.1	6278.7	6496.0	6784.2	7160.6	7580.1	7633.8	7909.2	7633.8
15°	5779.7	5796.9	5855.0	5990.5	6201.3	6468.0	6848.7	7337.0	7384.3	7855.4	7627.4
17.5°	5652.8	5672.1	5713.0	5820.6	5994.8	6242.2	6614.3	7141.3	7201.5	7821.0	7651.0
20°	5687.2	5704.4	5706.6	5762.5	5880.8	6089.4	6442.2	6958.4	7035.9	7799.5	7689.8
22.5°	5882.9	5885.1	5859.3	5833.5	5874.3	6024.9	6336.8	6842.3	6921.9	7795.2	7734.9
25°	6175.5	6181.9	6138.9	6048.6	5966.8	6044.3	6313.1	6767.0	6838.0	7784.4	7762.9
27.5°	6579.9	6577.7	6564.8	6414.2	6181.9	6130.3	6332.5	6726.1	6786.3	7754.3	7773.6
30°	7145.6	7128.4	7100.4	6930.5	6575.6	6338.9	6414.2	6700.3	6756.2	7711.3	7745.7
32.5°	7702.7	7767.2	7762.9	7601.6	7158.5	6711.1	6584.2	6734.7	6775.6	7683.3	7704.8
35°	8352.3	8350.1	8515.7	8455.5	7937.1	7186.4	6874.5	6848.7	6881.0	7702.7	7685.5
37.5°	8954.5	9010.5	9268.6	9331.0	8857.7	7857.5	7285.4	7093.9	7104.7	7833.9	7732.8
40°	9705.2	9812.8	10197.8	10406.5	9989.2	8853.4	7892.0	7543.5	7545.6	8156.5	7911.3
42.5°	10673.2	10843.1	11202.3	11550.8	11327.1	10032.2	8801.8	8255.5	8251.2	8724.4	8320.0
45°	11849.8	11968.1	12376.8	12929.6	12787.6	11677.7	10126.8	9358.9	9303.0	9655.8	9044.9
47.5°	12865.0	13026.3	13441.5	14071.7	14717.0	13686.7	11709.9	10875.4	10838.8	11137.8	10288.1
50°	13308.1	13450.1	13886.7	14770.8	16334.6	16323.8	14067.4	13088.7	13026.3	13187.7	12211.1
52.5°	12822.0	12955.4	13396.3	14497.6	17096.0	19537.4	17483.2	15865.6	15790.4	15583.9	14508.4
55°	11157.1	11266.8	11918.6	13183.4	16803.5	21679.7	22189.5	19296.5	19003.9	18201.6	17108.9
57.5°	8883.6	8827.6	9232.0	10701.1	15087.0	22398.2	27020.6	23570.5	23047.8	20464.4	19309.4
60°	6156.1	6328.2	6491.7	7459.6	11344.3	21152.8	30025.6	28943.6	28255.3	22690.7	21417.3
62.5°	4525.7	4639.7	4747.2	5194.6	7132.7	16889.5	30556.9	34463.0	33852.2	25054.6	23428.5
65°	3579.2	3587.8	3630.9	4071.8	4699.9	10982.9	28003.6	37575.5	37418.5	27330.4	24243.7
66°	3260.9	3263.0	3329.7	3802.9	4218.1	8943.8	25958.1	37812.1	37898.2	27876.7	24005.0
67.5°	2850.1	2841.4	2938.2	3417.9	3841.7	6448.6	22297.1	36852.8	37362.6	28296.2	23146.7
70°	2209.1	2198.3	2316.6	2867.3	3538.4	4302.0	14820.3	31643.1	32464.8	27437.9	20479.5
72.5°	1471.3	1479.9	1682.1	2262.8	3377.0	3787.9	8915.8	24071.6	25233.2	22658.4	16110.9
75°	858.2	873.3	1103.5	1682.1	2931.8	3611.5	5046.2	17164.8	17906.9	15646.2	10036.5
77.5°	449.6	456.0	617.3	1109.9	2247.8	3353.4	3362.0	10965.7	11314.2	7603.7	3972.9
80°	238.8	232.3	331.3	669.0	1546.6	2944.7	2727.4	5805.5	6035.7	2258.5	1004.5
82.5°	90.3	98.9	176.4	438.8	914.2	2114.4	2348.9	2566.1	2486.5	496.9	421.6
85°	17.2	21.5	75.3	260.3	460.3	884.1	1731.5	1258.3	1165.8	187.1	243.1
87.5°	2.2	4.3	21.5	62.4	66.7	299.0	511.9	348.5	301.1	68.8	101.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456402

CATALOG NUMBER: GALN-SA7C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1
2.5°	7556.4	7498.3	7304.7	7113.3	6917.6	6741.2	6620.7	6425.0	6375.5	6304.5	6263.7
5°	7541.3	7405.8	7033.7	6627.2	6248.6	5839.9	5528.0	5226.9	5065.6	4983.8	4953.7
7.5°	7498.3	7283.2	6702.5	6065.8	5459.2	4848.3	4317.0	3912.6	3652.4	3473.8	3353.4
10°	7412.3	7115.4	6317.4	5442.0	4525.7	3719.0	3045.8	2533.9	2138.1	2013.3	2017.6
12.5°	7324.1	6928.3	5887.2	4749.4	3613.6	2596.2	1882.1	1477.7	1288.4	1226.1	1213.2
15°	7242.4	6749.8	5465.6	4078.3	2690.9	1682.1	1213.2	1071.2	1019.6	1008.8	1006.7
17.5°	7199.3	6584.2	5016.1	3310.4	1877.8	1142.2	972.2	933.5	918.5	907.7	903.4
20°	7162.8	6440.0	4585.9	2591.9	1284.1	935.7	871.1	834.6	808.8	798.0	791.6
22.5°	7137.0	6291.6	4140.6	2006.9	983.0	830.3	772.2	724.9	688.3	675.4	666.8
25°	7098.2	6128.1	3691.1	1467.0	828.1	737.8	671.1	615.2	567.9	544.2	539.9
27.5°	7042.3	5943.2	3198.5	1086.2	739.9	656.0	574.3	505.5	458.2	432.3	434.5
30°	6952.0	5749.6	2705.9	862.5	669.0	572.2	484.0	417.3	372.1	352.8	350.6
32.5°	6844.4	5515.1	2254.2	739.9	604.4	496.9	404.4	346.3	311.9	296.8	294.7
35°	6743.3	5278.5	1793.9	664.7	537.7	428.0	339.9	290.4	264.6	251.7	253.8
37.5°	6687.4	5067.7	1398.1	604.4	484.0	367.8	292.5	249.5	225.9	215.1	212.9
40°	6724.0	4895.6	1112.1	550.7	423.7	316.2	251.7	215.1	191.4	176.4	176.4
42.5°	6896.0	4820.4	897.0	499.0	367.8	273.2	219.4	185.0	159.2	144.1	146.3
45°	7420.9	4899.9	750.7	451.7	316.2	236.6	189.3	152.7	129.1	118.3	116.2
47.5°	8292.0	5198.9	649.6	402.2	271.0	202.2	159.2	126.9	103.2	94.6	92.5
50°	9814.9	5816.3	574.3	352.8	230.2	172.1	131.2	101.1	81.7	73.1	73.1
52.5°	11910.0	7162.8	520.5	296.8	193.6	146.3	107.5	81.7	64.5	58.1	55.9
55°	14099.7	8582.4	492.6	249.5	161.3	120.5	86.0	64.5	49.5	43.0	40.9
57.5°	16205.5	9696.6	460.3	202.2	129.1	92.5	66.7	49.5	34.4	30.1	28.0
60°	18225.3	10597.9	391.5	161.3	101.1	66.7	49.5	34.4	23.7	19.4	19.4
62.5°	20032.1	11122.7	307.6	129.1	77.4	47.3	32.3	25.8	17.2	12.9	12.9
65°	20242.9	10440.9	232.3	98.9	55.9	30.1	19.4	19.4	12.9	8.6	8.6
66°	19819.1	9862.3	204.3	90.3	49.5	25.8	17.2	15.1	10.8	6.5	6.5
67.5°	18872.7	8875.0	176.4	77.4	40.9	19.4	12.9	12.9	8.6	4.3	4.3
70°	16306.6	7248.8	139.8	58.1	30.1	15.1	8.6	8.6	6.5	4.3	4.3
72.5°	12428.4	5411.9	114.0	43.0	21.5	10.8	6.5	6.5	6.5	4.3	4.3
75°	7496.2	2914.6	88.2	32.3	19.4	8.6	4.3	6.5	8.6	6.5	4.3
77.5°	2761.9	991.6	68.8	25.8	15.1	8.6	4.3	4.3	8.6	6.5	6.5
80°	677.6	258.1	49.5	21.5	15.1	8.6	4.3	4.3	8.6	8.6	8.6
82.5°	314.0	109.7	34.4	19.4	15.1	8.6	4.3	4.3	6.5	8.6	8.6
85°	180.7	51.6	28.0	21.5	15.1	8.6	4.3	4.3	6.5	8.6	8.6
87.5°	73.1	25.8	25.8	21.5	17.2	10.8	4.3	4.3	4.3	6.5	6.5
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)