

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: P454548

Luminaire Tested: **GALN-SA5C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23143 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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

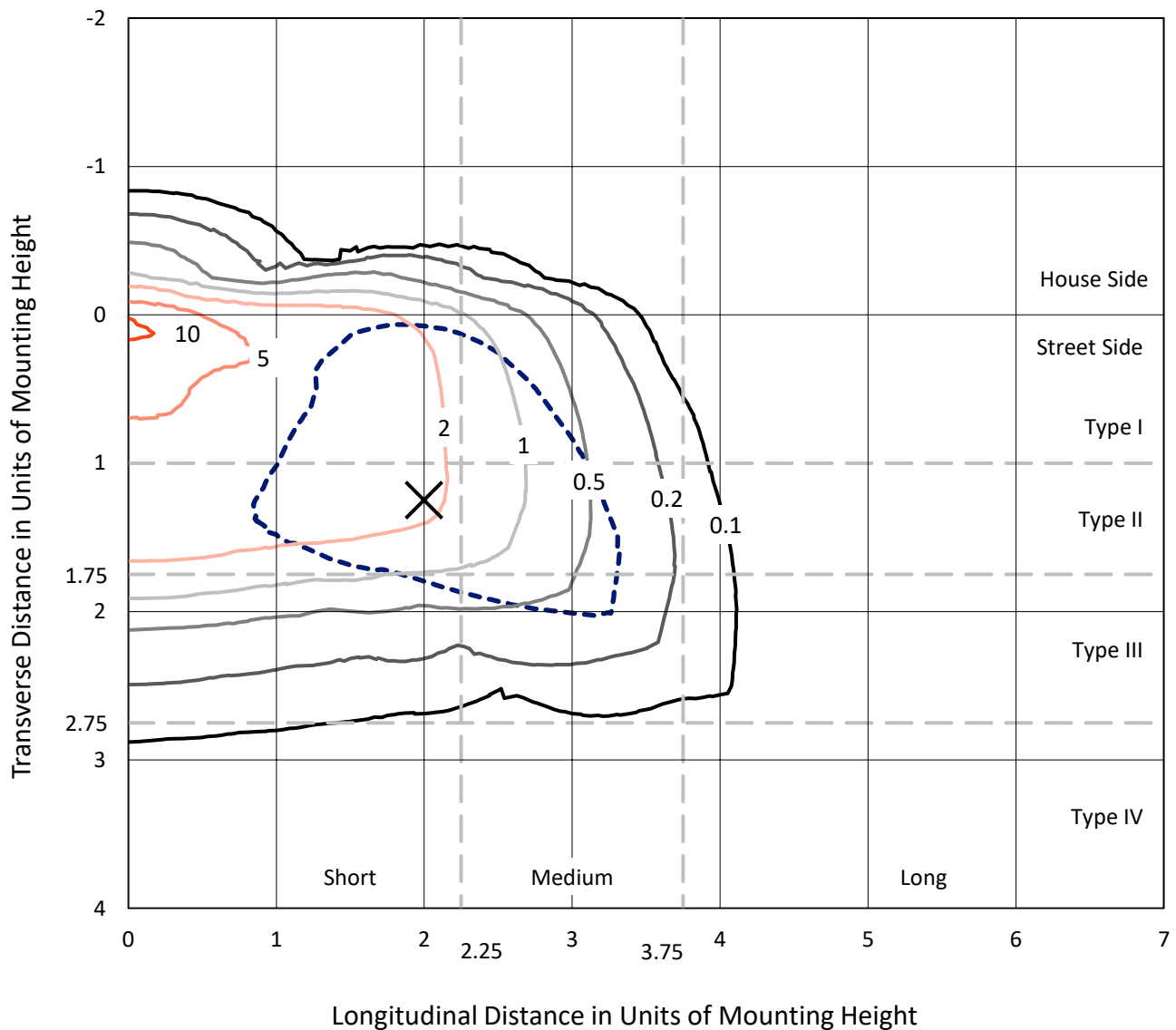


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Iso-Footcandle Lines of Horizontal Illumination

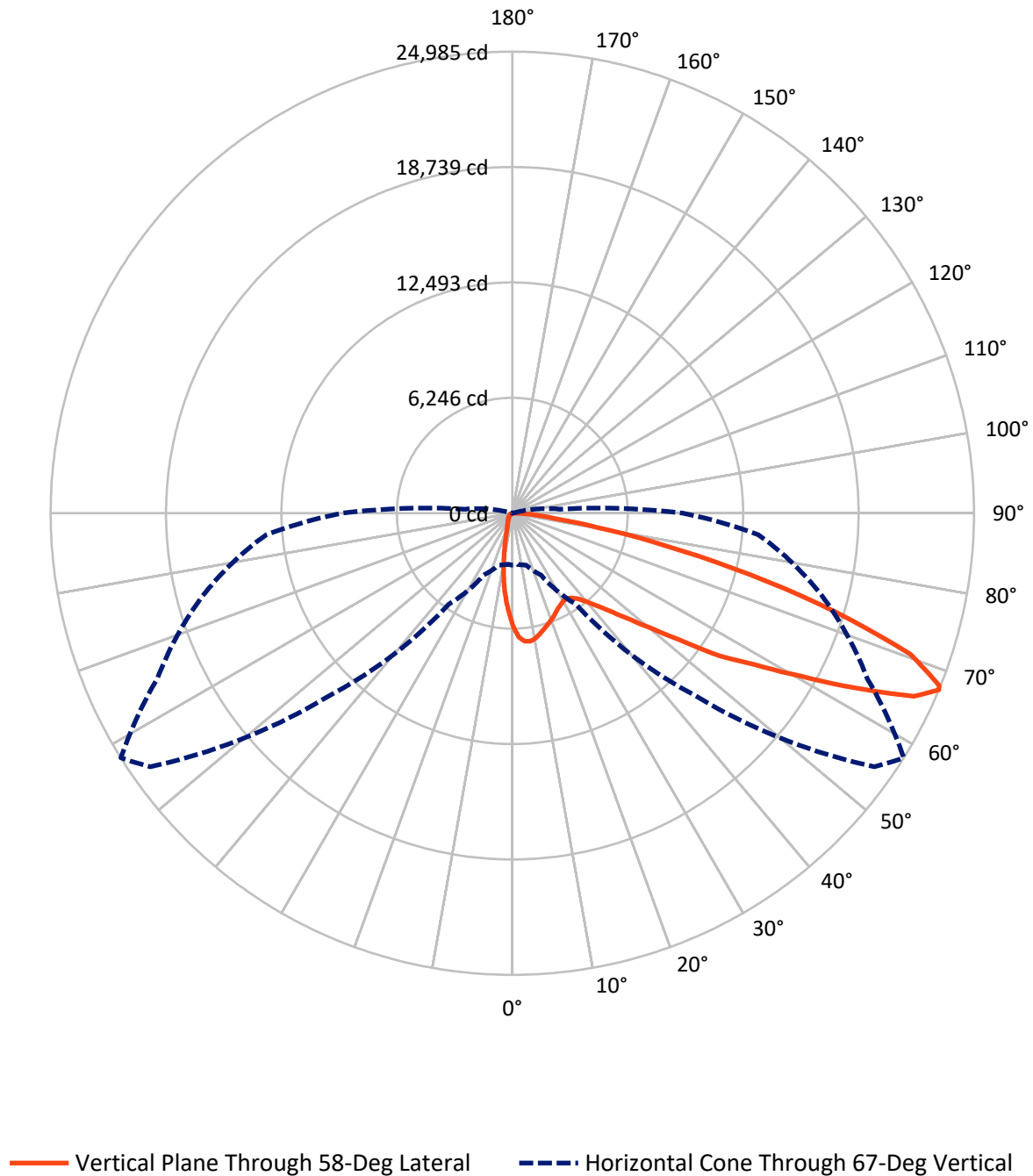
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.1	0.0	1670.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21472.9	0.0	21472.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	23143.0	0.0	23143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.8	2.2
10°-20°	1075.2	4.6
20°-30°	1457.0	6.3
30°-40°	2020.8	8.7
40°-50°	3222.9	13.9
50°-60°	5571.0	24.1
60°-70°	6363.8	27.5
70°-80°	2653.1	11.5
80°-90°	281.3	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°	23143.0	100.0
0°-180°	23143.0	100.0

Coefficient of Utilization



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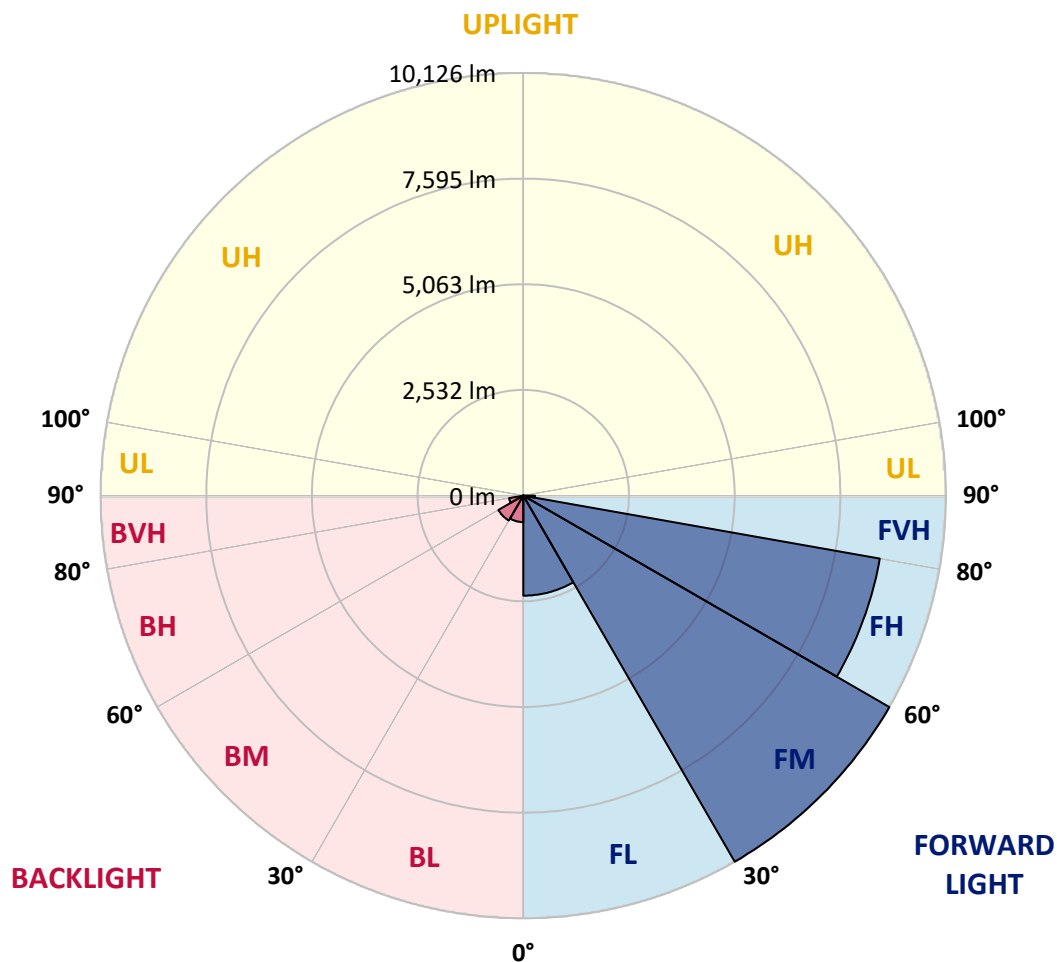
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2395.9	10.4			
FM	(30°-60°)	10126.0	43.8			
FH	(60°-80°)	8671.7	37.5			G4/12000
FVH	(80°-90°)	279.3	1.2			G3/500
BL	(0°-30°)	634.2	2.7	B2/1000		
BM	(30°-60°)	688.6	3.0	B1/1000		
BH	(60°-80°)	345.3	1.5	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0
2.5°	7120.1	7130.9	7090.7	7058.3	6974.8	6885.1	6766.0	6702.6	6594.3	6407.2	6200.0
5°	7287.1	7301.1	7294.9	7287.1	7254.7	7168.1	7016.5	6960.8	6801.5	6496.9	6122.6
7.5°	6916.0	6967.0	6973.2	7033.5	7090.7	7098.5	7041.3	6999.5	6852.6	6495.3	5985.0
10°	6424.2	6458.2	6507.7	6577.3	6714.9	6829.4	6885.1	6878.9	6793.8	6447.4	5824.1
12.5°	5927.8	5946.3	6022.1	6141.2	6309.8	6504.6	6653.1	6682.5	6684.0	6390.2	5689.6
15°	5500.9	5493.2	5552.0	5689.6	5926.2	6170.6	6436.6	6483.0	6557.2	6334.5	5564.3
17.5°	5136.0	5176.2	5185.4	5337.0	5555.1	5872.1	6210.8	6292.7	6441.2	6286.6	5460.7
20°	4910.2	4931.8	4951.9	5037.0	5233.4	5567.4	5998.9	6111.8	6332.9	6243.3	5344.7
22.5°	4843.7	4857.6	4840.6	4866.9	5006.0	5303.0	5768.5	5918.5	6229.3	6203.0	5250.4
25°	4894.7	4908.6	4868.4	4837.5	4885.4	5088.0	5545.8	5728.3	6145.8	6195.3	5179.3
27.5°	5018.4	5044.7	4989.0	4933.4	4905.5	4972.0	5371.0	5582.9	6088.6	6232.4	5146.8
30°	5211.7	5227.2	5185.4	5117.4	5054.0	4987.5	5279.8	5482.4	6073.1	6319.0	5143.7
32.5°	5422.1	5454.5	5431.3	5386.5	5304.5	5146.8	5306.1	5485.5	6110.3	6444.3	5182.3
35°	5681.9	5719.0	5740.6	5731.4	5626.2	5429.8	5473.1	5624.6	6209.2	6674.7	5287.5
37.5°	5937.0	5969.5	6091.7	6133.5	6040.7	5855.1	5797.9	5898.4	6427.3	6976.3	5477.7
40°	6229.3	6272.6	6444.3	6603.6	6558.7	6363.9	6258.7	6342.2	6761.3	7431.0	5838.1
42.5°	6509.3	6586.6	6847.9	7129.4	7171.2	6953.1	6883.5	6911.3	7256.2	8085.1	6340.7
45°	6906.7	6979.4	7316.5	7698.5	7894.9	7724.8	7653.7	7649.0	7935.1	9005.3	7155.7
47.5°	7480.5	7545.4	7942.9	8320.2	8669.7	8692.9	8558.4	8604.8	8788.8	10081.7	8154.7
50°	8184.1	8337.2	8598.6	8991.4	9458.4	9835.8	9877.5	9815.7	9973.4	11328.2	9354.8
52.5°	9206.4	9265.1	9504.8	9828.1	10375.5	11015.8	11512.2	11427.1	11377.7	12515.9	10567.3
55°	9968.8	10047.7	10420.4	10864.2	11666.9	12511.2	13587.6	13617.0	12992.2	13657.2	11753.5
57.5°	9738.4	9859.0	10423.5	11315.8	13080.4	14623.8	15424.9	15445.0	14486.1	14766.1	13092.7
60°	8555.3	8612.5	9421.3	10612.1	13201.0	16912.6	18030.7	17868.4	16006.4	16006.4	14275.8
62.5°	6067.0	6156.6	6812.4	8564.6	11922.0	17707.5	21151.6	20816.0	18100.3	17192.5	14981.0
65°	3877.1	3790.5	4225.1	5406.6	8881.6	16533.7	23868.8	23888.9	20070.6	17667.3	14595.9
67°	2808.5	2774.4	2899.7	3696.2	6022.1	13898.5	23926.0	24985.4	21202.6	17367.3	13364.9
67.5°	2568.7	2595.0	2686.3	3334.3	5471.5	12647.3	23666.2	24920.4	21457.8	17186.3	12919.5
70°	1947.1	1902.2	2001.2	2358.4	3280.1	7978.4	20358.2	22855.8	21140.8	15390.8	10322.9
72.5°	1432.1	1427.4	1565.1	1928.5	2525.4	4249.8	15282.6	18326.1	17271.4	11719.4	6500.0
75°	966.6	1009.9	1229.5	1611.5	2288.8	2755.9	10418.8	13295.3	11990.1	6654.6	2656.9
77.5°	550.6	553.6	791.8	1294.4	2055.3	2217.7	6173.7	8470.2	6346.9	2213.1	788.7
80°	238.2	261.4	392.8	940.3	1704.3	1964.1	3540.0	4655.0	2567.2	468.6	255.2
82.5°	88.2	103.6	173.2	578.4	1243.4	1617.6	2138.8	2222.3	870.7	165.5	159.3
85°	0.0	3.1	63.4	270.6	648.0	722.2	1429.0	1317.6	385.1	78.9	103.6
87.5°	0.0	0.0	0.0	27.8	85.1	269.1	443.8	494.9	92.8	27.8	24.7
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°	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0
2.5°	6088.6	5988.1	5736.0	5483.9	5296.8	5140.6	4905.5	4777.2	4709.1	4608.6	4614.8
5°	5935.5	5731.4	5287.5	4828.2	4457.0	4095.2	3662.1	3487.4	3340.5	3256.9	3201.3
7.5°	5708.2	5406.6	4749.3	4136.9	3566.2	2933.7	2458.9	2141.9	1928.5	1849.6	1773.8
10°	5459.2	5058.6	4203.4	3354.4	2562.6	1909.9	1507.8	1217.1	1113.5	1017.6	1026.9
12.5°	5228.7	4741.6	3702.3	2647.6	1795.5	1214.0	946.5	827.4	793.4	782.5	782.5
15°	5040.1	4438.5	3164.2	1990.4	1231.0	872.2	757.8	725.3	712.9	709.8	709.8
17.5°	4839.0	4150.8	2678.6	1470.7	895.4	730.0	691.3	669.6	665.0	661.9	661.9
20°	4659.6	3861.6	2217.7	1094.9	723.8	657.3	632.5	618.6	614.0	610.9	612.4
22.5°	4489.5	3604.9	1784.7	827.4	637.2	598.5	573.8	559.8	550.6	542.8	544.4
25°	4338.0	3357.5	1435.2	677.4	573.8	539.7	515.0	494.9	474.8	465.5	464.0
27.5°	4231.2	3141.0	1118.1	579.9	516.5	479.4	448.5	423.7	397.5	383.5	380.4
30°	4143.1	2921.4	884.6	511.9	459.3	423.7	385.1	349.5	321.7	307.8	301.6
32.5°	4085.9	2712.6	697.5	456.2	411.4	368.1	324.8	289.2	258.3	244.3	241.3
35°	4076.6	2537.8	570.7	409.8	368.1	321.7	276.8	238.2	211.9	198.0	194.9
37.5°	4143.1	2403.3	477.9	372.7	332.5	281.5	232.0	196.4	173.2	162.4	160.8
40°	4320.9	2318.2	414.5	341.8	300.0	244.3	198.0	167.0	143.8	133.0	133.0
42.5°	4659.6	2321.3	372.7	312.4	267.5	208.8	168.6	139.2	119.1	109.8	106.7
45°	5188.5	2426.5	337.1	283.0	236.6	180.9	143.8	114.4	94.3	86.6	86.6
47.5°	5896.8	2635.2	306.2	253.6	208.8	154.7	122.2	92.8	75.8	68.0	68.0
50°	6823.2	2970.8	279.9	228.9	185.6	133.0	99.0	75.8	58.8	52.6	51.0
52.5°	7791.3	3385.3	249.0	207.2	159.3	112.9	80.4	58.8	44.8	40.2	38.7
55°	8859.9	3790.5	219.6	185.6	129.9	94.3	63.4	46.4	32.5	27.8	27.8
57.5°	9937.9	4187.9	184.0	154.7	102.1	69.6	49.5	34.0	21.7	17.0	17.0
60°	10850.3	4316.3	156.2	125.3	77.3	49.5	35.6	21.7	12.4	7.7	7.7
62.5°	10975.6	3883.3	131.5	95.9	55.7	34.0	18.6	12.4	4.6	3.1	3.1
65°	10295.1	3154.9	109.8	72.7	37.1	17.0	7.7	4.6	1.5	0.0	0.0
67°	9224.9	2557.9	89.7	54.1	26.3	10.8	4.6	1.5	0.0	0.0	0.0
67.5°	8951.2	2438.8	86.6	51.0	23.2	9.3	3.1	1.5	0.0	0.0	0.0
70°	7024.2	1826.4	61.9	30.9	13.9	6.2	0.0	0.0	0.0	0.0	0.0
72.5°	4365.8	1033.1	44.8	18.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0
75°	1650.1	361.9	30.9	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	513.4	137.6	18.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.2	52.6	12.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	106.7	21.7	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.5	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	3.1	1.5	0.0	0.0	0.0	0.0	0.0	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)