

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: P648296

Luminaire Tested: **GALN-SA2B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6481.7 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

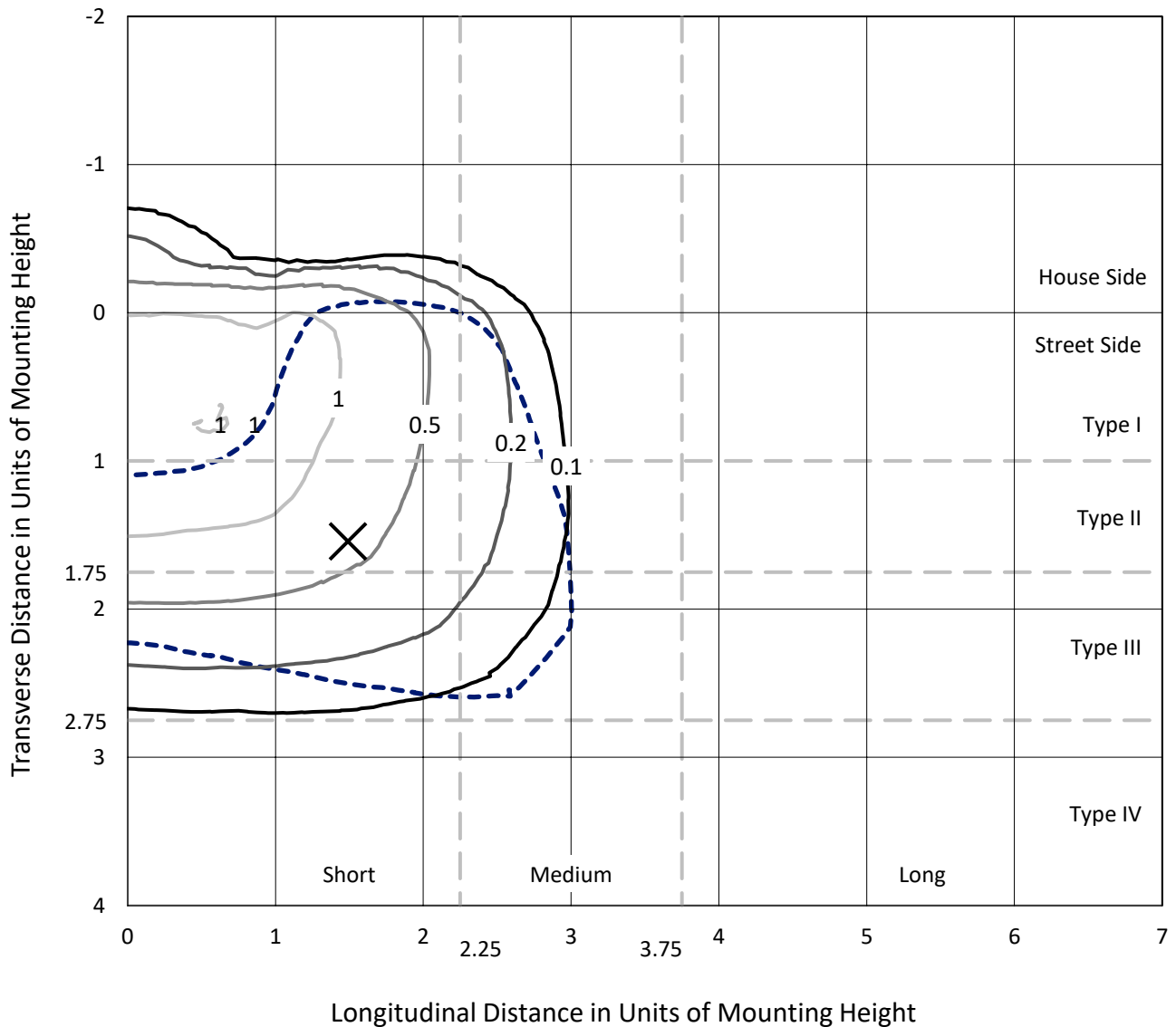
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

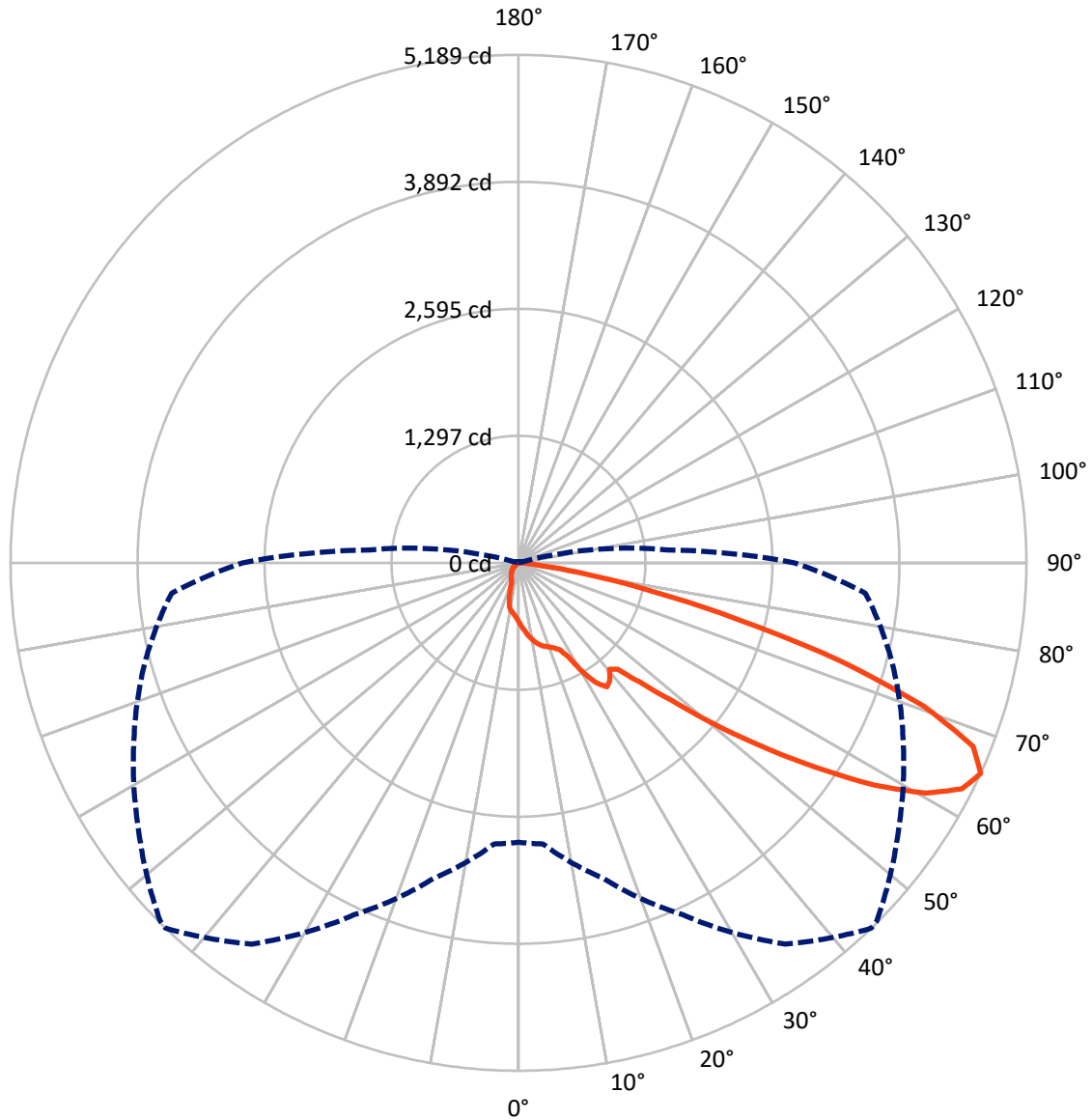
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.2	0.0	597.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	5884.5	0.0	5884.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	6481.7	0.0	6481.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	0.9
10°-20°	180.6	2.8
20°-30°	306.2	4.7
30°-40°	509.1	7.9
40°-50°	888.9	13.7
50°-60°	1736.6	26.8
60°-70°	2014.9	31.1
70°-80°	733.7	11.3
80°-90°	51.7	0.8
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°	6481.7	100.0
0°-180°	6481.7	100.0

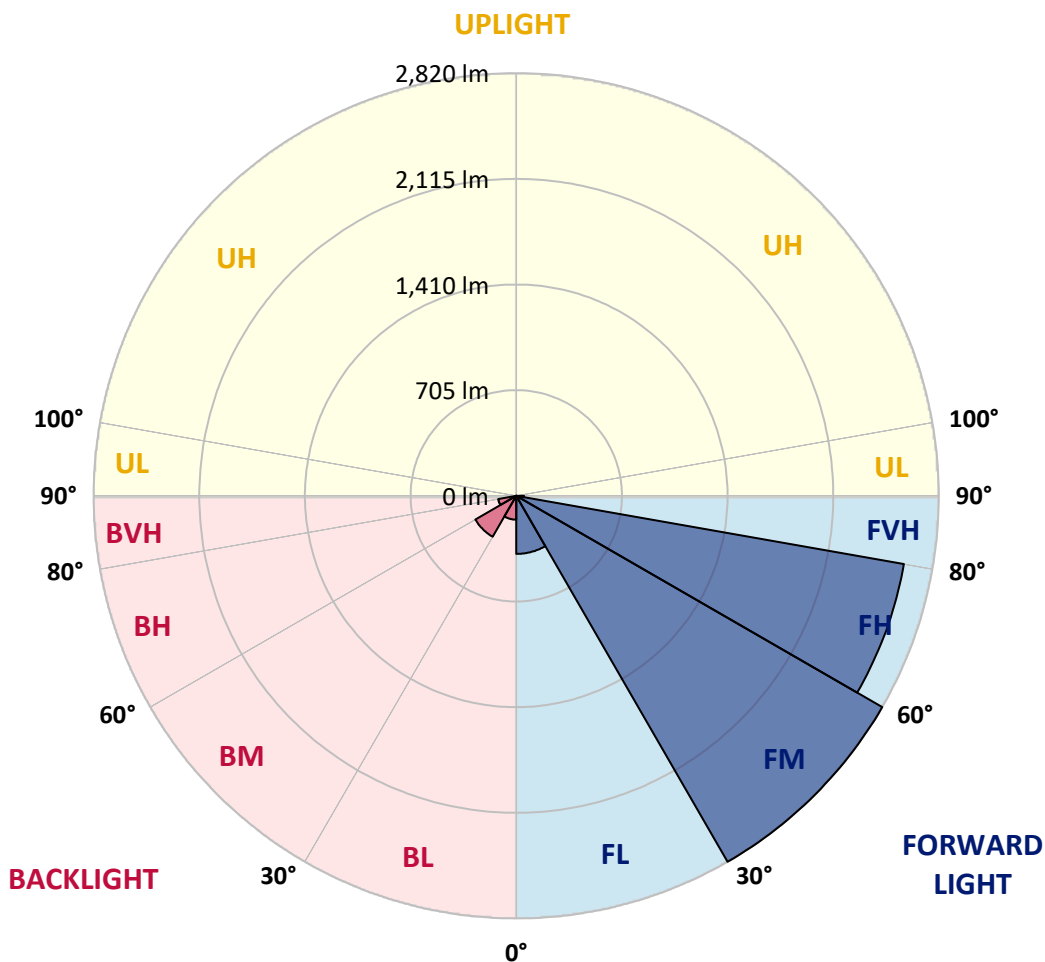


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.7	6.0			
FM (30°-60°)	2819.5	43.5			
FH (60°-80°)	2626.3	40.5			G2/5000
FVH (80°-90°)	51.0	0.8			G1/100
BL (0°-30°)	159.1	2.5	B1/500		
BM (30°-60°)	315.1	4.9	B1/1000		
BH (60°-80°)	122.3	1.9	B1/500		G1/500
BVH (80°-90°)	0.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2
2.5°	679.0	676.0	674.6	666.6	660.7	653.3	653.3	643.9	633.0	621.1	610.2
5°	754.8	749.9	743.4	736.5	722.6	702.8	702.8	683.0	660.2	639.9	617.6
7.5°	827.6	823.2	812.3	798.9	776.1	755.3	753.8	725.1	697.9	667.1	635.5
10°	891.5	888.0	878.6	852.8	829.1	801.9	801.4	769.1	737.5	699.8	660.7
12.5°	936.1	936.5	924.2	899.4	868.7	843.0	841.0	809.3	776.1	735.5	687.5
15°	967.8	967.8	954.9	927.2	899.4	876.6	874.7	846.9	812.8	768.7	716.7
17.5°	976.7	979.7	965.8	941.0	918.8	899.0	898.4	875.2	847.9	805.3	746.4
20°	973.2	976.2	965.3	946.0	930.6	919.2	917.8	908.4	883.1	843.0	778.1
22.5°	965.8	968.8	960.8	949.5	942.0	945.5	943.0	951.0	937.6	889.0	815.7
25°	967.3	970.2	964.3	957.8	964.3	985.6	992.1	1026.2	1014.3	947.5	856.4
27.5°	1013.8	1019.8	1011.3	1014.3	1037.1	1086.6	1099.0	1158.0	1105.4	1021.7	919.7
30°	1117.3	1113.4	1097.5	1111.9	1191.2	1296.2	1292.7	1283.3	1201.0	1107.5	995.0
32.5°	1211.5	1208.0	1207.0	1268.9	1412.5	1463.6	1461.1	1369.9	1286.7	1205.5	1069.3
35°	1249.6	1236.2	1233.2	1383.3	1623.6	1556.1	1540.8	1405.6	1390.8	1312.5	1145.1
37.5°	1364.5	1355.1	1309.0	1402.1	1539.3	1517.1	1505.2	1467.0	1501.7	1407.1	1230.8
40°	1601.2	1575.0	1533.3	1442.3	1420.0	1429.4	1441.3	1545.8	1632.9	1536.3	1345.2
42.5°	1895.4	1889.5	1812.3	1642.3	1475.4	1488.3	1503.7	1710.2	1821.6	1731.0	1531.9
45°	2248.5	2257.0	2145.6	1945.0	1726.0	1736.9	1759.2	1952.9	2077.2	2033.6	1825.6
47.5°	2569.5	2563.1	2525.4	2316.9	2114.9	2090.6	2126.7	2264.4	2430.8	2437.8	2190.1
50°	2892.4	2926.6	2870.6	2788.9	2638.9	2587.8	2574.4	2641.8	2895.4	2862.3	2628.0
52.5°	3356.5	3374.3	3269.3	3248.5	3282.7	3117.3	3103.9	3120.3	3347.1	3233.2	2955.8
55°	3648.2	3637.8	3598.7	3761.1	3896.4	3689.8	3673.0	3607.1	3722.0	3495.2	3271.3
57.5°	3740.3	3755.2	3846.3	4140.0	4460.0	4284.7	4254.0	4066.7	3992.4	3739.4	3561.6
60°	3699.2	3726.5	3923.1	4360.0	4803.7	4777.5	4751.2	4436.7	4186.6	3943.4	3765.1
62.5°	3406.5	3444.7	3759.2	4320.8	4920.1	5084.0	5051.4	4667.5	4315.9	4042.5	3800.8
65°	2854.8	2883.0	3334.7	3965.7	4754.7	5189.0	5177.2	4739.8	4336.2	3951.8	3556.6
67.5°	2035.1	2131.2	2549.7	3342.2	4265.3	5009.8	5030.1	4653.1	4145.5	3560.1	2945.4
70°	1279.3	1344.6	1644.8	2392.7	3419.4	4395.1	4462.0	4256.5	3597.7	2775.0	1971.7
72.5°	610.2	658.7	872.7	1514.6	2413.5	3458.0	3511.1	3494.2	2782.0	1748.4	1017.3
75°	271.9	290.3	416.6	773.1	1558.2	2324.3	2461.5	2484.3	1738.4	855.3	395.7
77.5°	138.7	139.1	195.1	374.4	778.1	1386.8	1414.0	1493.7	942.5	376.9	137.7
80°	73.8	78.8	103.5	176.8	403.6	683.0	679.5	746.9	418.0	184.7	46.0
82.5°	33.2	36.6	58.4	92.6	197.2	259.0	279.4	305.6	179.3	117.8	20.3
85°	9.9	11.9	28.7	46.6	71.3	74.8	83.7	108.0	101.6	83.7	10.4
87.5°	1.5	1.5	11.9	12.8	10.4	13.4	13.9	15.3	32.7	30.7	5.5
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°	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2	603.2
2.5°	604.2	600.8	588.4	578.0	569.1	563.6	557.2	553.2	551.2	549.7	550.3
5°	606.7	598.3	577.0	560.2	547.3	533.4	524.0	518.6	516.1	512.1	512.1
7.5°	620.6	607.2	577.5	551.8	529.5	510.6	492.8	486.4	481.9	480.9	479.9
10°	640.4	623.6	582.9	547.3	515.6	489.8	464.6	442.3	424.9	414.5	413.0
12.5°	665.2	640.9	591.4	544.3	503.7	458.1	391.3	346.2	316.0	306.5	308.0
15°	687.9	661.7	599.8	541.8	481.9	379.9	304.1	252.6	237.2	235.8	236.2
17.5°	715.2	684.0	609.7	538.4	422.0	290.3	225.8	212.0	214.9	219.9	219.4
20°	743.4	707.8	621.5	517.6	336.8	218.5	199.6	201.1	205.5	210.0	211.0
22.5°	773.6	735.0	635.5	467.5	257.1	190.2	189.2	191.2	195.7	200.6	201.5
25°	815.3	769.1	645.8	402.1	194.7	175.9	177.8	181.3	185.3	190.7	191.7
27.5°	868.7	815.3	651.3	317.0	168.4	162.9	163.4	168.4	173.4	178.3	178.3
30°	938.0	870.2	640.4	239.7	155.5	150.6	148.6	151.6	158.0	162.9	163.4
32.5°	1000.0	922.2	611.7	183.2	146.1	139.1	134.2	134.8	137.2	140.2	140.6
35°	1061.9	972.7	562.7	154.0	136.2	128.3	120.8	116.9	114.9	113.5	114.9
37.5°	1141.1	1035.6	497.3	140.2	127.8	117.8	107.5	99.0	92.2	87.7	88.6
40°	1243.2	1122.8	420.0	131.2	119.9	108.0	94.1	83.2	71.3	67.3	65.4
42.5°	1411.5	1255.1	338.8	123.8	112.0	97.6	80.3	65.4	54.5	50.5	51.5
45°	1677.5	1421.9	261.0	115.9	104.0	86.2	67.3	51.5	42.6	40.6	41.6
47.5°	2030.2	1637.9	201.1	107.0	94.1	73.8	53.0	40.6	35.2	34.7	34.1
50°	2362.0	1839.0	167.9	97.1	82.2	61.4	43.6	34.1	30.7	30.2	30.2
52.5°	2662.1	1983.1	136.7	85.7	69.4	50.5	36.6	30.2	27.2	25.8	25.8
55°	2929.0	2077.2	111.0	71.8	54.5	40.1	31.7	27.2	23.8	21.8	21.3
57.5°	3130.7	2088.6	83.2	57.5	40.6	31.2	27.2	23.8	19.8	17.3	16.4
60°	3216.9	1990.0	61.4	43.6	30.2	24.7	21.8	19.3	14.9	12.4	11.9
62.5°	3130.2	1798.4	45.6	33.2	23.3	18.3	15.3	14.3	10.4	7.4	7.0
65°	2819.7	1521.5	36.2	25.3	17.3	13.4	9.9	9.4	6.4	3.4	3.0
67.5°	2259.0	1191.6	28.7	18.8	12.4	8.9	6.4	6.0	3.4	1.0	1.0
70°	1469.0	761.7	23.3	13.9	7.9	6.0	4.0	3.0	2.0	0.5	0.0
72.5°	726.5	356.1	18.8	10.9	5.5	3.0	1.5	1.0	1.5	0.0	0.0
75°	281.8	126.8	13.9	7.4	3.0	1.5	1.0	0.0	0.5	0.0	0.0
77.5°	93.6	42.1	8.5	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	34.7	16.4	4.5	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.9	6.4	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	4.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	3.0	2.0	1.5	1.0	0.5	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)