

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: P948444

Luminaire Tested: **GALN-SB3C-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19158 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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

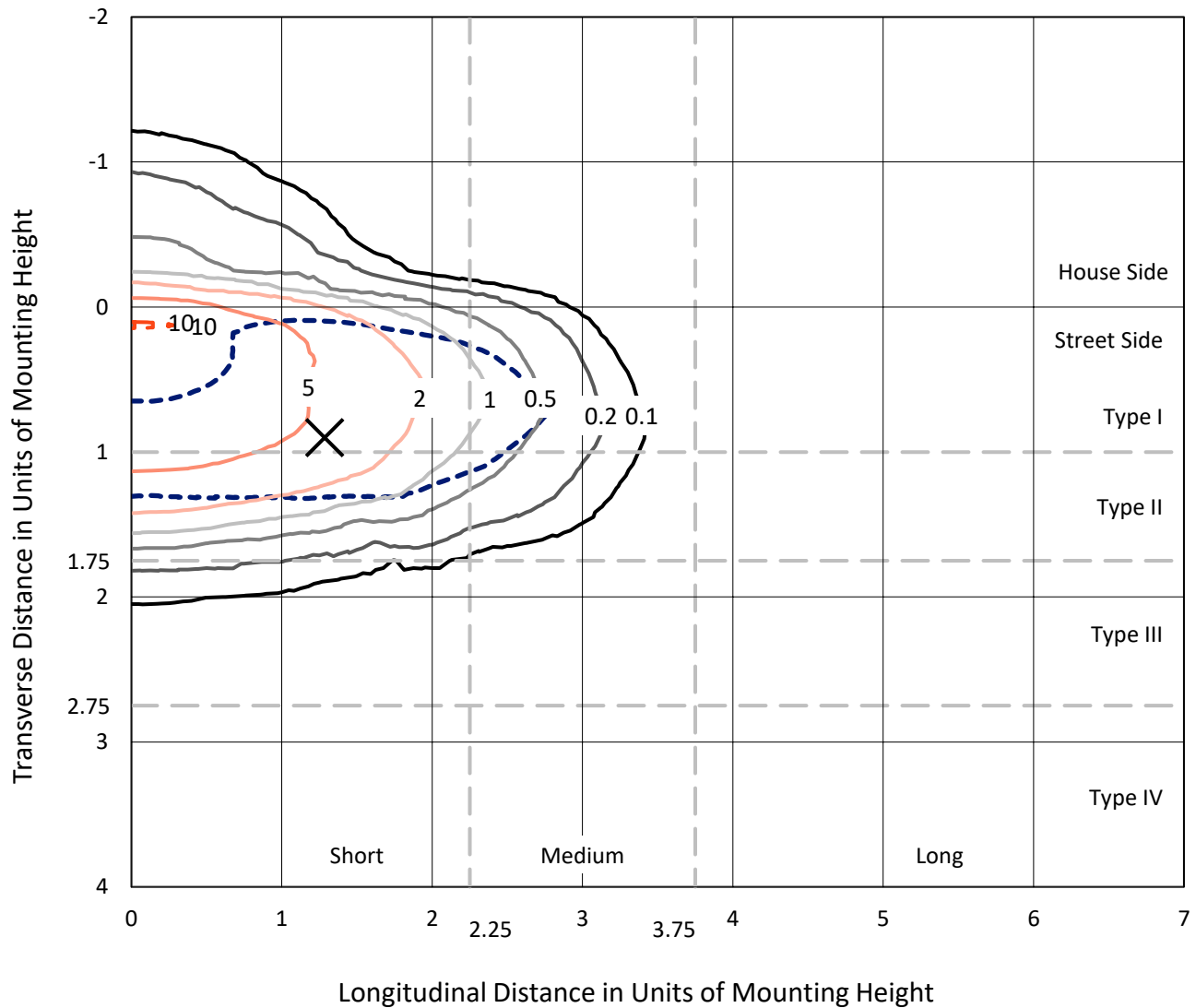


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Iso-Footcandle Lines of Horizontal Illumination

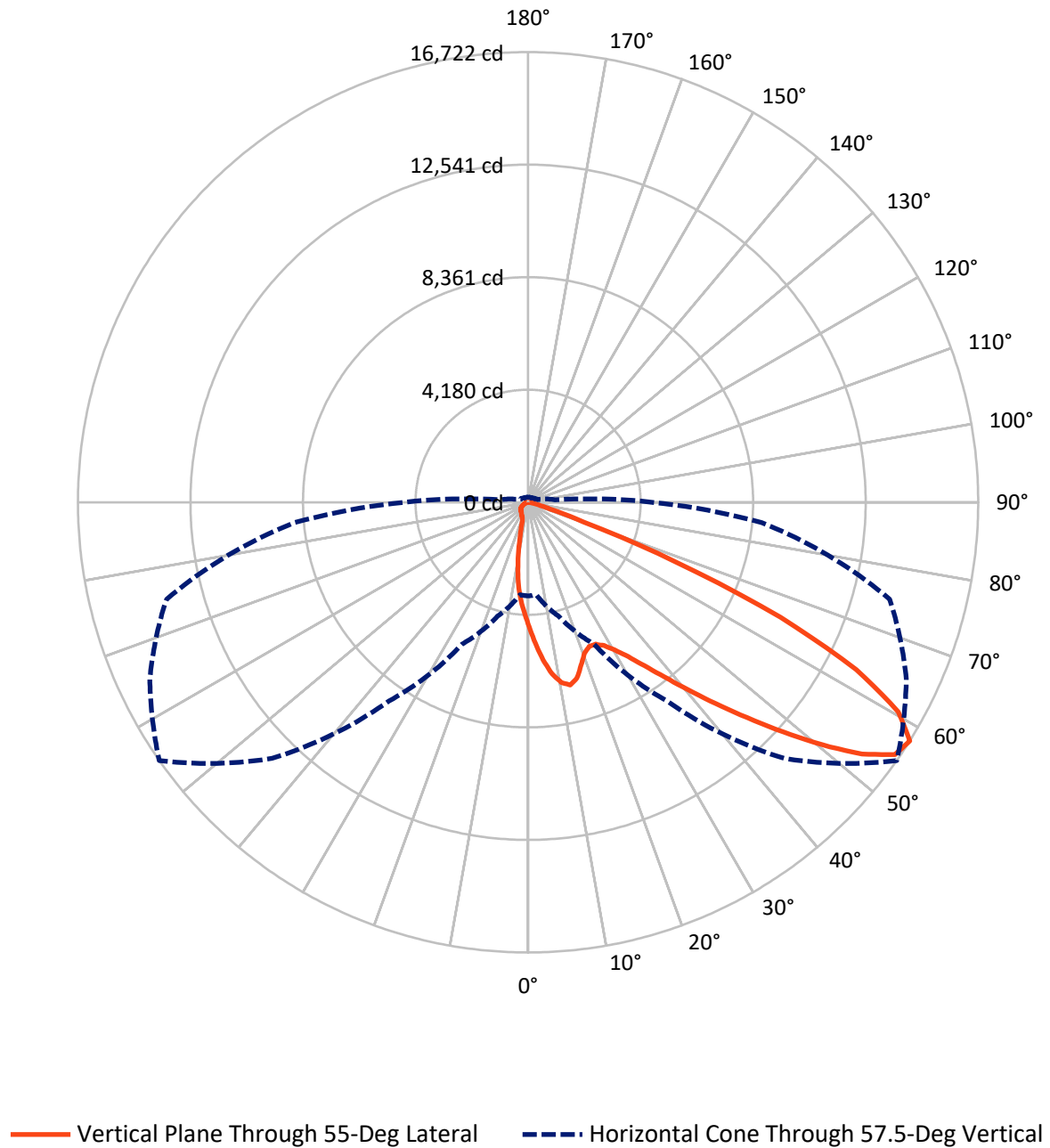
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	1496.2	0.0	1496.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	17661.8	0.0	17661.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	19158.0	0.0	19158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	2.2
10°-20°	1037.6	5.4
20°-30°	1660.1	8.7
30°-40°	2809.8	14.7
40°-50°	4613.2	24.1
50°-60°	5070.2	26.5
60°-70°	2908.3	15.2
70°-80°	594.2	3.1
80°-90°	35.1	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°	19158.0	100.0
0°-180°	19158.0	100.0

Coefficient of Utilization



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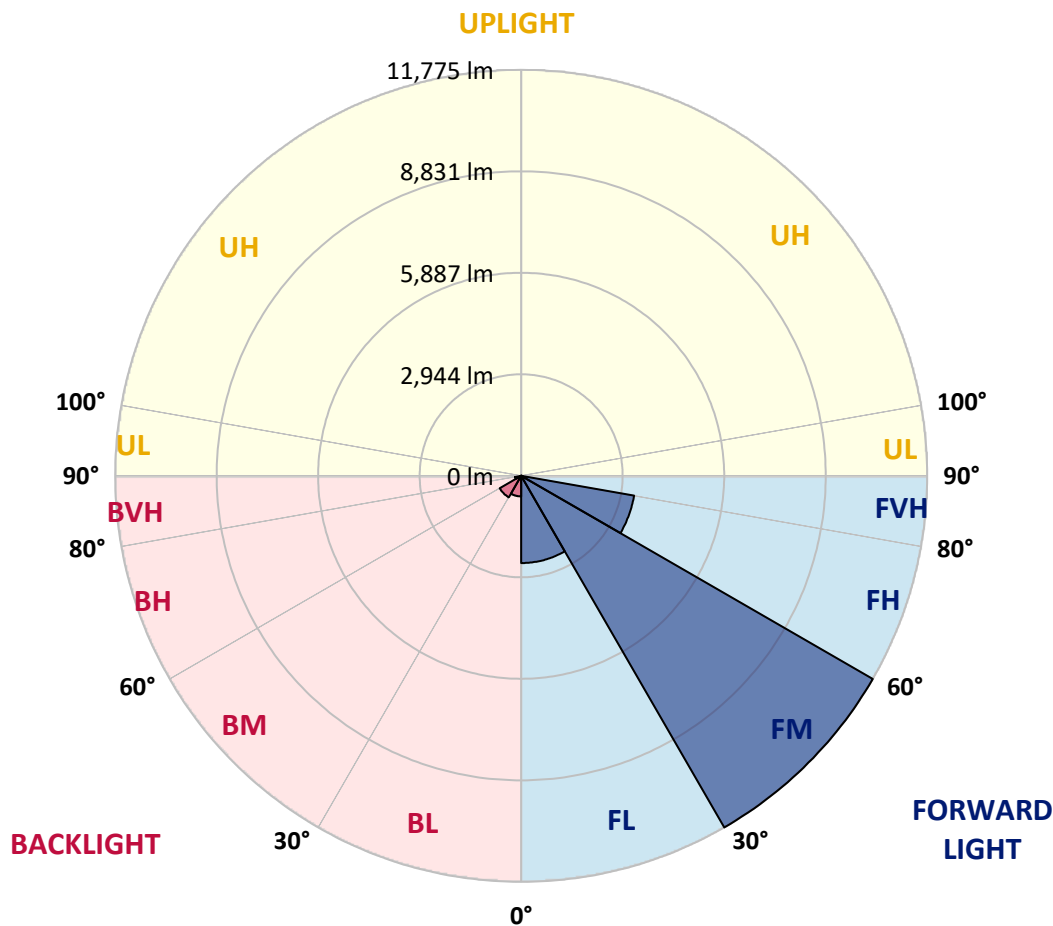
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2529.9	13.2			
FM	(30°-60°)	11774.6	61.5			
FH	(60°-80°)	3324.6	17.4			G2/5000
FVH	(80°-90°)	32.7	0.2			G1/100
BL	(0°-30°)	597.3	3.1	B2/1000		
BM	(30°-60°)	718.5	3.8	B1/1000		
BH	(60°-80°)	177.9	0.9	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	65°	75°	85°	90°
0°	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6
2.5°	5728.2	5656.2	5645.5	5631.4	5494.3	5391.6	5242.7	5079.7	4896.6	4709.9	4627.2
5°	6617.8	6561.1	6550.4	6484.3	6328.3	6153.5	5888.9	5554.6	5213.2	4811.5	4639.1
7.5°	6790.2	6779.6	6828.0	6825.7	6804.4	6666.2	6442.9	6044.8	5532.1	4936.7	4669.8
10°	6021.2	6048.4	6192.5	6318.9	6660.3	6858.8	6810.3	6481.9	5860.5	5079.7	4704.0
12.5°	5320.7	5288.8	5391.6	5534.5	5931.4	6522.1	6962.7	6846.9	6236.2	5241.5	4754.8
15°	4881.2	4868.2	4926.1	4992.3	5294.7	5890.1	6785.5	7143.5	6597.7	5432.9	4831.6
17.5°	4740.6	4730.0	4747.7	4764.3	4960.4	5421.1	6363.8	7325.4	6943.8	5651.4	4916.7
20°	4855.2	4841.1	4838.7	4825.7	4907.2	5221.4	5982.2	7338.4	7254.5	5849.9	4989.9
22.5°	5189.5	5173.0	5115.1	5063.1	5070.2	5248.6	5812.1	7208.4	7488.4	6035.4	5036.0
25°	5795.6	5768.4	5647.9	5473.1	5362.0	5437.6	5838.1	7037.1	7711.7	6180.7	5013.5
27.5°	6554.0	6518.5	6363.8	6103.9	5849.9	5757.8	6025.9	6919.0	7897.1	6291.7	4965.1
30°	7297.0	7251.0	7098.6	6896.6	6525.6	6235.0	6365.0	6971.0	8118.0	6407.5	4901.3
32.5°	8099.1	8055.4	7853.4	7603.0	7295.8	6904.8	6829.2	7225.0	8388.6	6569.3	4856.4
35°	9113.9	9045.4	8758.3	8416.9	8090.9	7695.1	7457.7	7663.2	8748.9	6816.2	4881.2
37.5°	10269.2	10177.1	9867.6	9396.2	8971.0	8528.0	8223.2	8265.7	9276.9	7147.0	4958.0
40°	11358.4	11274.5	10988.7	10544.5	10010.5	9473.0	9148.2	9053.7	10005.8	7549.8	5092.7
42.5°	12011.7	11936.1	11815.6	11627.8	11177.7	10629.5	10219.6	10015.2	10868.2	8031.8	5256.9
45°	12048.3	11982.1	12144.0	12362.5	12273.9	11908.9	11409.2	11034.7	11734.1	8484.3	5427.0
47.5°	11462.4	11417.5	11908.9	12672.0	13052.4	13206.0	12745.3	11969.2	12448.8	8809.1	5496.7
50°	9865.2	9848.7	10859.9	12260.9	13348.9	14342.4	14154.6	12838.6	13002.8	8976.9	5430.5
52.5°	8554.0	8493.7	9083.2	10944.9	12917.8	14940.2	15532.0	13691.5	13390.3	9008.8	5275.8
55°	6487.8	6434.7	7174.2	8743.0	11527.3	14727.5	16539.7	14571.6	13667.9	8927.2	4998.2
57.5°	3480.2	3447.1	4381.5	5819.2	9011.1	13451.7	16721.6	15502.5	13901.8	8711.1	4609.5
60°	1355.0	1349.1	1698.7	2823.4	5476.6	10943.8	15803.7	16061.3	14048.3	8445.3	4284.7
62.5°	819.8	837.6	894.3	1267.6	2419.3	6798.5	13688.0	15425.7	14146.3	8201.9	4016.5
65°	678.1	679.3	686.3	870.6	1158.9	2844.6	10304.7	13334.8	13904.2	7768.4	3636.1
67.5°	581.2	591.8	619.0	691.1	817.5	1247.5	5932.6	10329.5	12431.0	6759.5	3043.1
70°	458.4	472.5	506.8	568.2	630.8	780.9	2192.5	6872.9	9496.6	5095.0	2301.2
72.5°	386.3	385.1	402.8	461.9	500.9	549.3	843.5	3851.1	5519.1	2432.3	1138.8
75°	298.9	310.7	333.1	386.3	409.9	398.1	457.2	1407.0	1977.5	737.1	387.5
77.5°	233.9	243.4	263.4	315.4	339.0	282.3	263.4	503.2	635.6	264.6	174.8
80°	105.1	113.4	179.6	232.7	276.4	194.9	142.9	257.5	282.3	120.5	88.6
82.5°	18.9	31.9	105.1	122.9	141.8	126.4	74.4	133.5	138.2	48.4	30.7
85°	1.2	2.4	36.6	44.9	56.7	41.3	22.4	53.2	46.1	16.5	11.8
87.5°	0.0	0.0	0.0	1.2	1.2	5.9	7.1	9.5	7.1	5.9	4.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6	4616.6
2.5°	4542.2	4374.4	4211.4	4077.9	4000.0	3867.6	3780.2	3766.1	3729.4	3761.3
5°	4454.8	4154.7	3851.1	3579.4	3356.1	3067.9	2852.9	2761.9	2682.8	2710.0
7.5°	4413.4	3939.7	3467.2	3002.9	2525.7	2065.0	1722.4	1579.4	1470.7	1486.1
10°	4357.9	3716.4	2975.7	2267.0	1627.9	1173.1	936.8	849.4	800.9	802.1
12.5°	4315.4	3449.5	2405.2	1536.9	991.1	749.0	675.7	654.5	640.3	641.5
15°	4294.1	3135.2	1841.7	1024.2	708.8	634.4	616.7	607.2	597.7	596.6
17.5°	4258.7	2785.6	1347.9	747.8	620.2	594.2	578.8	568.2	556.4	554.0
20°	4205.5	2388.6	985.2	632.0	581.2	561.1	539.9	525.7	511.5	509.1
22.5°	4107.5	1969.3	757.2	584.8	552.9	530.4	504.4	487.9	473.7	471.3
25°	3925.5	1575.9	637.9	555.2	528.1	500.9	472.5	450.1	437.1	434.7
27.5°	3695.2	1238.0	578.8	528.1	496.2	471.3	439.5	418.2	406.4	404.0
30°	3423.5	953.3	544.6	497.3	458.4	437.1	408.7	391.0	383.9	383.9
32.5°	3130.5	762.0	530.4	466.6	425.3	401.6	379.2	372.1	369.8	368.6
35°	2855.3	661.5	523.3	441.8	395.7	373.3	363.8	365.0	369.8	369.8
37.5°	2610.7	629.6	519.8	424.1	369.8	349.7	355.6	366.2	361.5	361.5
40°	2389.8	633.2	517.4	411.1	348.5	336.7	348.5	340.2	328.4	327.2
42.5°	2220.9	662.7	512.7	400.5	335.5	327.2	322.5	309.5	308.3	310.7
45°	2098.0	688.7	511.5	395.7	321.3	306.0	300.1	287.1	310.7	316.6
47.5°	1952.7	688.7	511.5	379.2	297.7	291.8	282.3	268.2	291.8	297.7
50°	1764.9	645.0	491.4	360.3	278.8	275.2	258.7	241.0	236.3	239.8
52.5°	1527.4	565.9	440.6	334.3	259.9	252.8	232.7	219.7	216.2	216.2
55°	1256.9	473.7	372.1	296.5	239.8	226.8	212.6	206.7	203.2	200.8
57.5°	1021.8	388.7	298.9	263.4	220.9	204.4	199.6	192.6	186.6	183.1
60°	838.7	306.0	246.9	233.9	202.0	186.6	185.5	176.0	160.7	158.3
62.5°	647.4	224.5	207.9	203.2	183.1	170.1	167.7	148.8	125.2	120.5
65°	457.2	174.8	167.7	178.4	163.0	151.2	145.3	117.0	92.1	88.6
67.5°	321.3	146.5	132.3	155.9	141.8	126.4	122.9	99.2	76.8	74.4
70°	229.2	119.3	108.7	133.5	113.4	111.0	104.0	82.7	62.6	60.2
72.5°	161.8	91.0	83.9	115.8	78.0	95.7	85.1	63.8	47.3	44.9
75°	119.3	65.0	59.1	67.3	56.7	72.1	60.2	42.5	29.5	28.4
77.5°	87.4	41.3	35.4	33.1	33.1	44.9	33.1	17.7	13.0	11.8
80°	61.4	18.9	16.5	14.2	13.0	10.6	4.7	2.4	1.2	1.2
82.5°	36.6	8.3	8.3	5.9	3.5	0.0	0.0	0.0	0.0	0.0
85°	8.3	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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

(END OF REPORT)