

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: P450621

Luminaire Tested: **GALN-SA1B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3295 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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

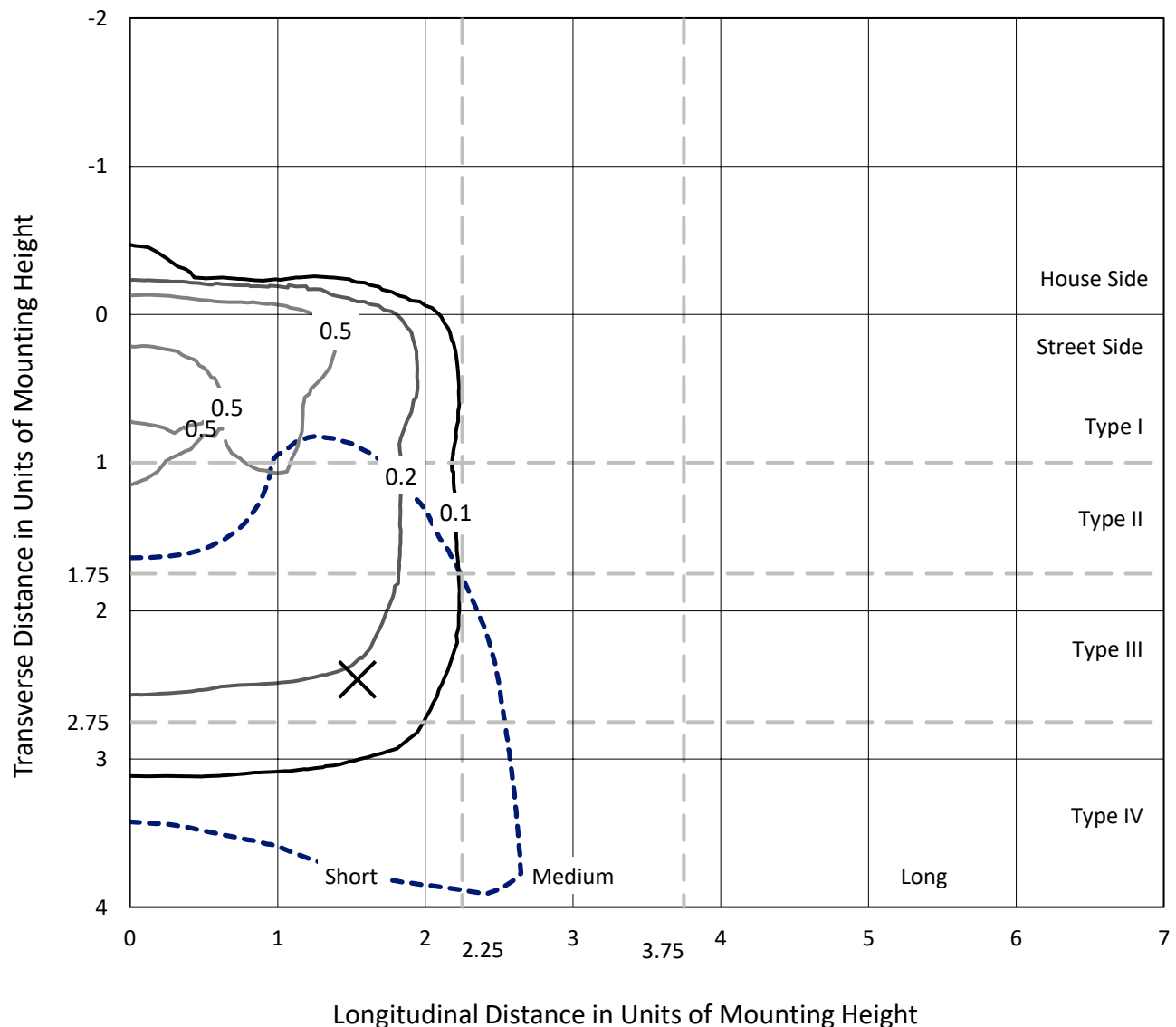


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Iso-Footcandle Lines of Horizontal Illumination

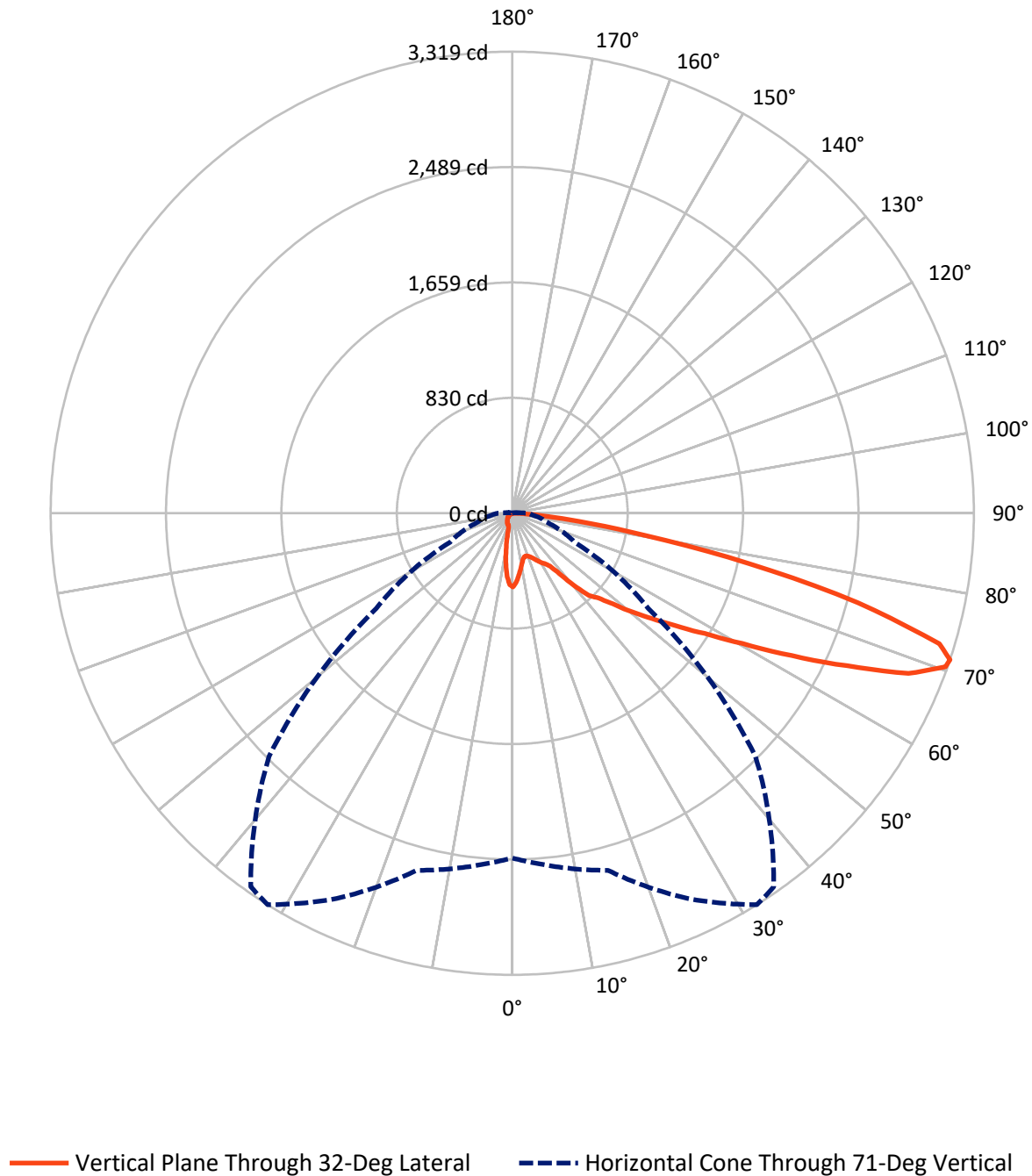
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.0	0.0	276.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3019.0	0.0	3019.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	3295.0	0.0	3295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.3
10°-20°	93.5	2.8
20°-30°	145.5	4.4
30°-40°	242.4	7.4
40°-50°	450.8	13.7
50°-60°	723.8	22.0
60°-70°	973.6	29.5
70°-80°	577.6	17.5
80°-90°	44.7	1.4
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°	3295.0	100.0
0°-180°	3295.0	100.0

Coefficient of Utilization



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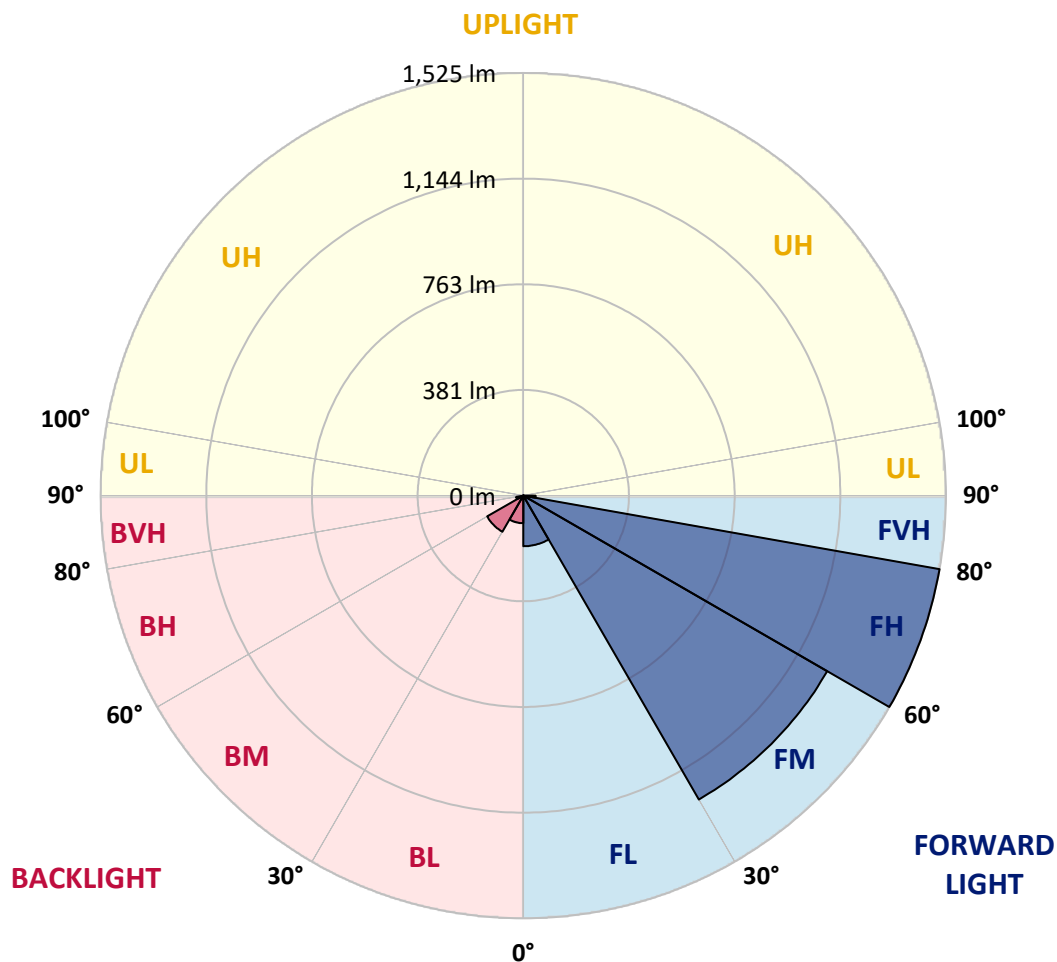
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.6	5.5			
FM	(30°-60°)	1266.5	38.4			
FH	(60°-80°)	1525.4	46.3			G1/1800
FVH	(80°-90°)	44.5	1.3			G1/100
BL	(0°-30°)	99.4	3.0	B0/110		
BM	(30°-60°)	150.6	4.6	B0/220		
BH	(60°-80°)	25.8	0.8	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9
2.5°	491.4	496.5	495.7	497.5	501.8	503.6	508.4	513.7	521.0	526.1	529.4
5°	440.1	443.9	444.4	453.2	457.5	462.4	476.5	491.9	509.1	522.8	531.9
7.5°	385.2	387.2	391.3	402.9	413.8	418.6	440.1	466.9	494.0	519.5	536.0
10°	339.9	342.2	349.5	361.9	372.1	378.4	408.2	441.9	479.8	517.7	541.8
12.5°	314.1	315.4	318.2	329.3	342.2	349.0	381.2	419.6	468.4	518.5	551.6
15°	312.4	311.9	308.6	313.1	324.8	331.8	363.2	404.4	458.3	521.0	563.3
17.5°	321.7	320.5	312.6	312.6	322.2	328.0	355.6	396.3	453.2	526.9	579.7
20°	336.1	334.1	321.2	320.2	329.6	335.6	360.2	396.8	454.3	537.7	601.7
22.5°	354.4	352.1	332.6	333.1	343.2	349.3	373.3	406.0	460.6	551.1	625.2
25°	378.1	375.6	352.6	351.6	362.2	367.5	392.8	422.1	469.4	567.8	656.1
27.5°	409.7	404.4	376.9	375.3	386.7	393.6	416.3	443.9	485.1	590.8	697.6
30°	435.8	430.0	403.7	399.6	411.8	417.1	440.6	473.2	516.0	631.1	755.0
32.5°	469.9	461.3	430.5	419.9	432.8	439.6	475.8	527.9	561.8	673.6	823.3
35°	546.8	541.5	503.8	466.7	465.9	474.5	527.6	583.0	608.8	739.8	916.4
37.5°	656.9	653.1	613.1	563.3	548.9	544.8	590.6	643.7	683.9	830.9	1024.6
40°	784.6	775.7	739.1	696.8	678.1	666.2	665.0	734.0	782.1	954.6	1137.4
42.5°	876.1	860.0	815.4	812.4	808.4	796.0	760.1	866.0	908.8	1087.6	1258.1
45°	972.3	947.7	881.5	870.1	868.6	867.8	903.7	1022.3	1046.9	1231.8	1382.0
47.5°	1046.9	1027.4	973.0	968.0	974.3	991.5	1093.7	1188.3	1183.2	1360.3	1486.0
50°	1146.3	1131.6	1071.2	1080.8	1113.4	1141.5	1307.9	1369.1	1295.3	1461.4	1561.6
52.5°	1263.6	1236.6	1180.4	1206.5	1256.6	1303.3	1535.3	1527.4	1373.9	1537.6	1618.0
55°	1365.3	1346.1	1326.9	1353.9	1428.8	1487.2	1740.7	1646.1	1431.1	1598.8	1642.8
57.5°	1537.3	1532.8	1513.0	1540.6	1631.4	1692.1	1924.5	1738.1	1467.8	1630.6	1613.7
60°	1791.8	1784.4	1747.7	1782.9	1901.3	1996.6	2094.0	1820.8	1476.1	1618.2	1530.0
62.5°	2097.8	2072.8	2041.4	2093.2	2255.6	2297.6	2253.6	1869.9	1445.0	1519.6	1328.1
65°	2383.6	2357.8	2358.6	2467.8	2644.6	2673.2	2439.8	1862.6	1353.9	1272.5	979.6
67.5°	2602.4	2598.1	2629.0	2842.2	3073.3	3053.6	2606.2	1752.8	1084.1	824.8	520.5
70°	2613.5	2621.9	2710.4	3070.3	3305.0	3273.7	2592.0	1424.8	675.8	379.4	205.1
71°	2479.0	2535.1	2657.5	3063.2	3318.7	3278.0	2472.6	1193.3	495.7	264.6	148.0
72.5°	2112.5	2142.1	2406.6	2882.9	3210.7	3123.7	2169.9	836.4	317.4	161.9	85.0
75°	1163.5	1236.3	1611.7	2261.7	2568.0	2491.6	1414.1	397.4	158.3	88.5	35.2
77.5°	553.9	539.8	786.4	1345.1	1741.2	1737.1	712.5	176.5	92.3	59.9	17.7
80°	158.3	178.1	301.0	639.4	966.7	977.3	273.7	85.2	64.0	46.8	9.1
82.5°	47.8	48.8	110.5	282.8	480.8	453.2	102.7	43.5	46.0	37.2	5.3
85°	8.3	10.4	32.6	99.7	183.4	139.1	25.8	20.7	30.4	24.5	3.0
87.5°	0.5	0.8	10.9	11.4	16.2	9.4	4.6	3.0	6.6	6.6	1.8
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°	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9
2.5°	531.7	533.2	532.2	529.9	526.1	521.5	515.5	510.4	506.1	503.8	506.6
5°	534.9	537.0	531.9	520.5	503.3	484.6	463.4	446.9	434.0	430.0	428.5
7.5°	540.0	541.3	527.6	502.3	465.9	421.6	382.9	350.3	325.0	317.4	306.3
10°	546.6	545.8	520.0	473.0	409.0	342.5	282.5	238.0	204.4	192.2	191.2
12.5°	556.7	552.7	510.4	433.0	341.2	254.2	180.1	140.9	119.6	112.6	111.0
15°	569.3	559.7	495.2	386.2	261.3	164.2	111.0	99.1	96.4	95.9	95.4
17.5°	584.3	569.1	475.3	328.8	183.6	106.5	92.8	92.6	92.8	92.3	92.1
20°	604.5	579.0	451.5	260.8	121.4	89.8	88.5	88.5	88.8	88.5	88.5
22.5°	626.0	590.6	422.1	199.1	91.6	85.2	85.0	85.5	86.0	85.7	85.7
25°	652.6	605.8	383.4	136.3	81.9	81.4	81.7	82.7	83.7	84.0	83.7
27.5°	691.0	624.5	342.0	93.8	75.1	75.6	78.2	80.7	82.2	82.5	82.5
30°	734.3	645.2	287.8	76.1	69.6	69.6	72.6	77.4	80.7	81.2	81.4
32.5°	789.9	669.3	227.9	68.5	64.2	63.7	66.5	72.3	78.4	80.2	80.2
35°	858.7	697.6	169.5	63.7	60.5	59.2	60.7	65.5	73.3	78.4	78.9
37.5°	939.4	724.4	123.9	59.4	56.9	55.1	56.2	59.9	66.3	73.9	75.9
40°	1014.0	748.2	92.6	55.9	53.4	52.1	52.9	54.6	59.9	67.0	68.3
42.5°	1095.4	766.6	73.6	52.1	49.8	49.3	49.3	50.1	53.6	57.7	57.9
45°	1176.6	773.2	61.7	47.6	46.0	46.5	46.3	45.8	47.3	46.8	46.8
47.5°	1234.5	765.4	51.1	43.3	43.3	44.0	42.7	41.0	40.2	37.2	37.4
50°	1274.3	736.8	42.0	38.2	40.2	41.2	38.7	35.9	33.1	29.8	29.1
52.5°	1290.7	685.9	34.4	31.6	35.7	36.9	33.9	30.6	26.3	23.5	22.8
55°	1280.1	623.2	28.6	25.8	30.1	31.6	28.6	24.8	20.0	16.9	16.4
57.5°	1233.3	548.4	24.3	20.5	24.0	25.0	23.0	19.0	14.2	11.1	11.1
60°	1152.3	471.0	19.7	16.2	18.0	19.5	17.5	13.7	9.6	6.8	6.3
62.5°	988.2	382.4	15.9	12.6	12.6	13.9	12.1	9.9	6.1	3.5	3.3
65°	713.5	262.3	12.6	9.4	9.1	9.1	7.6	6.6	3.5	1.5	1.0
67.5°	387.7	148.0	10.1	7.1	6.3	6.1	4.8	3.8	1.5	0.3	0.0
70°	152.5	56.9	7.8	4.8	4.0	3.8	2.5	1.8	1.0	0.0	0.0
71°	103.4	39.2	6.8	4.0	3.3	2.8	2.0	1.5	0.8	0.0	0.0
72.5°	59.2	24.3	5.3	3.0	2.5	2.0	1.5	1.0	0.8	0.0	0.0
75°	25.8	12.4	3.3	2.3	1.8	1.3	1.0	0.8	0.3	0.0	0.0
77.5°	13.2	6.8	2.3	1.8	1.0	0.8	0.5	0.3	0.0	0.0	0.0
80°	7.3	3.5	1.5	1.0	0.8	0.5	0.3	0.3	0.0	0.0	0.0
82.5°	4.0	2.0	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.5	0.0	0.0	0.0	0.0	0.3	0.3	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)