

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: P450382

Luminaire Tested: **GALN-SA1A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3698 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

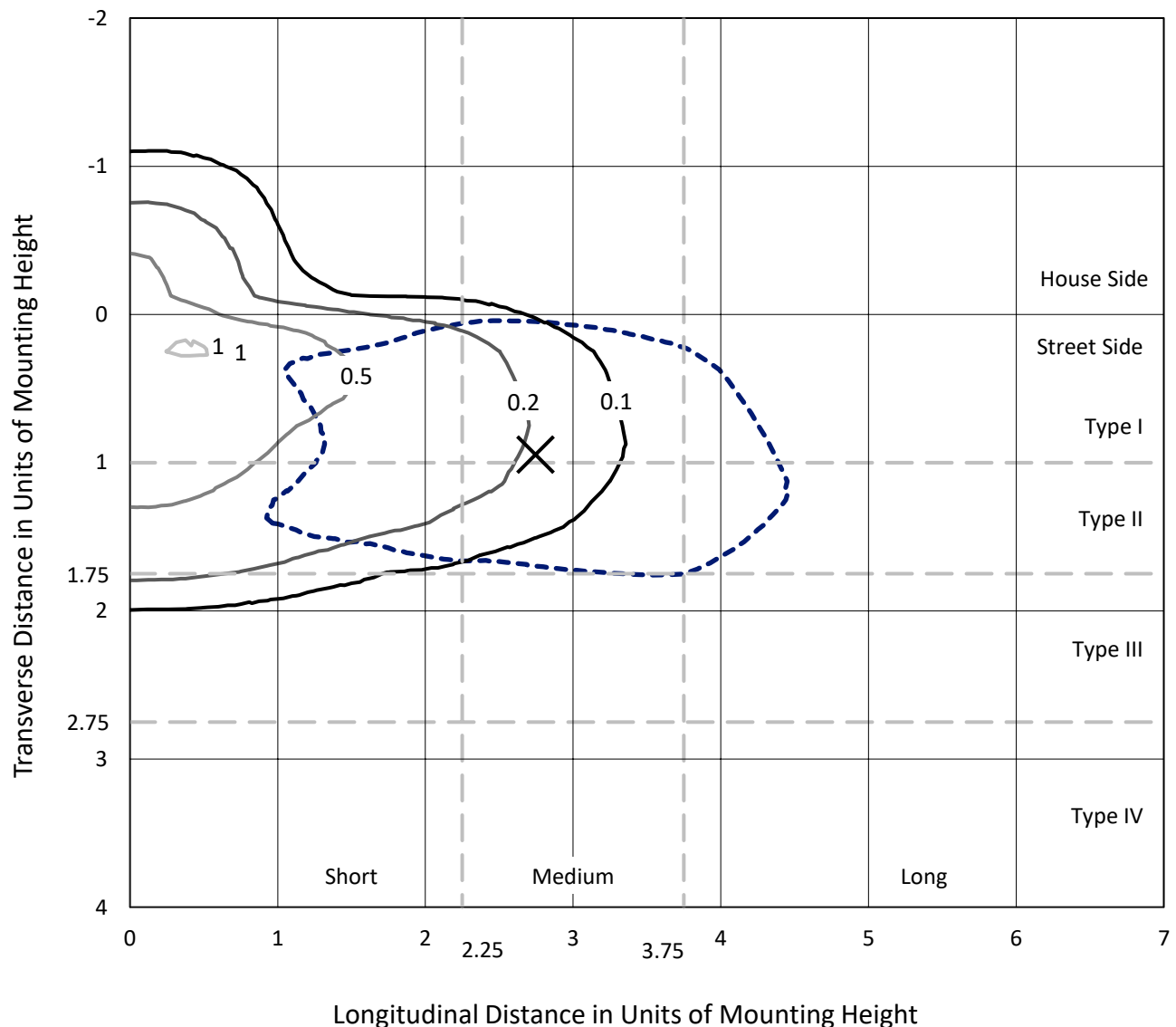


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

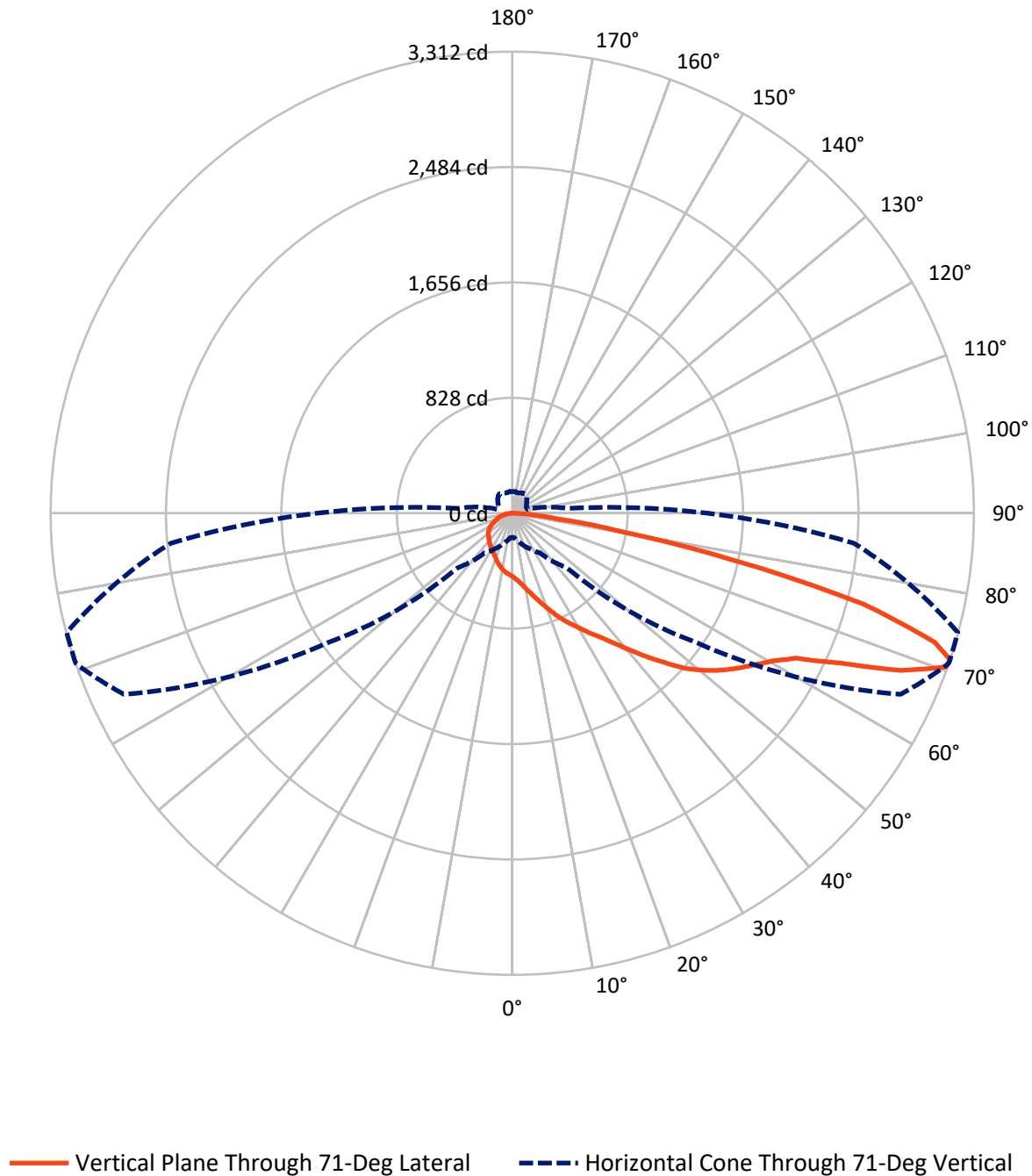


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	665.1	0.0	665.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	3032.9	0.0	3032.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	3698.0	0.0	3698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.2
10°-20°	148.1	4.0
20°-30°	258.7	7.0
30°-40°	384.8	10.4
40°-50°	567.0	15.3
50°-60°	793.8	21.5
60°-70°	887.9	24.0
70°-80°	542.3	14.7
80°-90°	69.8	1.9
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°	3698.0	100.0
0°-180°	3698.0	100.0

Coefficient of Utilization



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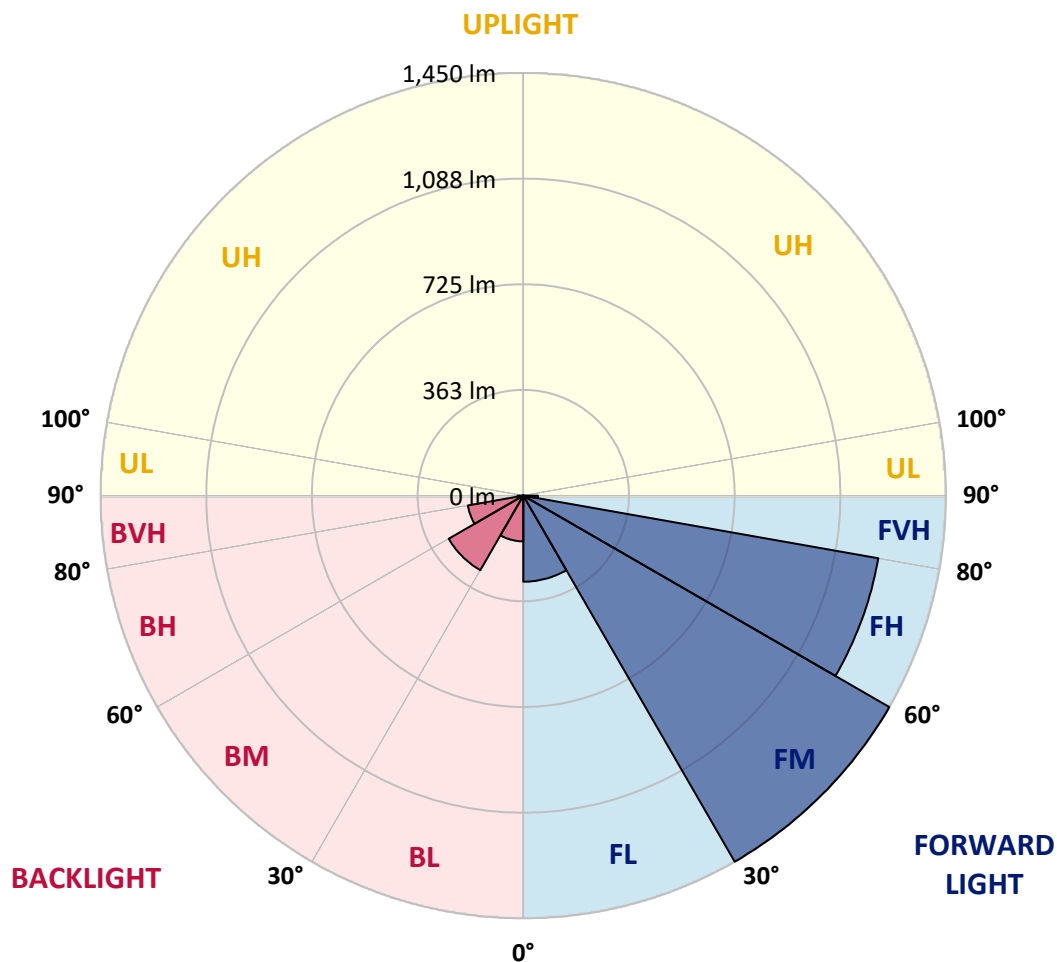
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.5	8.0			
FM	(30°-60°)	1450.3	39.2			
FH	(60°-80°)	1237.0	33.4			G1/1800
FVH	(80°-90°)	50.2	1.4			G1/100
BL	(0°-30°)	156.9	4.2	B1/500		
BM	(30°-60°)	295.4	8.0	B1/1000		
BH	(60°-80°)	193.2	5.2	B1/500		G1/500
BVH	(80°-90°)	19.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9
2.5°	503.9	501.4	501.6	498.2	493.7	488.8	481.9	475.8	470.9	468.1	459.8
5°	558.3	555.9	552.8	545.3	542.1	530.1	514.8	501.0	490.4	484.5	467.9
7.5°	602.4	601.8	601.0	596.7	588.4	571.7	558.7	534.7	519.1	507.9	479.5
10°	629.7	630.7	631.3	632.1	628.7	619.9	602.0	571.7	551.8	537.6	494.5
12.5°	643.5	644.5	648.0	655.5	660.2	659.1	644.5	614.8	587.4	568.7	510.6
15°	652.0	653.7	659.7	669.7	685.4	695.3	688.2	660.8	630.7	608.5	529.7
17.5°	661.4	663.2	669.9	684.1	704.7	726.2	733.9	710.4	677.6	651.2	551.0
20°	666.7	669.1	678.7	697.3	721.3	752.6	778.2	765.8	730.1	700.8	575.6
22.5°	675.2	677.2	685.4	705.3	733.9	773.2	822.6	819.9	788.4	750.6	602.6
25°	698.4	701.6	705.7	717.7	745.3	794.1	859.3	877.6	844.9	802.6	627.4
27.5°	742.1	744.7	744.5	746.1	761.8	812.2	891.2	934.7	901.0	855.3	651.4
30°	791.9	792.9	793.7	790.0	793.5	830.7	920.5	991.2	957.5	909.3	672.3
32.5°	852.4	854.5	847.6	838.2	835.4	858.1	944.7	1047.8	1024.4	964.2	693.1
35°	924.0	929.3	915.2	898.8	887.2	897.6	977.2	1105.5	1092.9	1034.3	720.5
37.5°	1005.7	1012.2	999.2	966.9	950.4	953.2	1019.7	1176.8	1179.5	1114.2	761.4
40°	1072.5	1081.1	1081.5	1035.8	1010.8	1014.0	1073.6	1253.6	1283.9	1213.0	809.5
42.5°	1116.7	1125.0	1133.7	1106.9	1080.7	1099.2	1136.4	1337.0	1401.4	1332.9	876.8
45°	1165.0	1172.5	1177.4	1165.2	1150.6	1198.6	1212.2	1425.6	1526.6	1466.9	950.4
47.5°	1221.1	1229.5	1234.1	1222.5	1217.1	1285.8	1293.9	1508.3	1660.3	1596.9	1031.7
50°	1295.9	1302.2	1299.8	1292.5	1291.2	1352.6	1372.3	1585.8	1770.7	1737.0	1116.0
52.5°	1389.0	1396.5	1399.2	1388.8	1384.1	1400.4	1435.6	1656.3	1871.1	1857.3	1206.1
55°	1445.3	1457.3	1497.5	1513.8	1525.0	1462.2	1503.6	1734.1	1961.2	1984.1	1302.8
57.5°	1373.2	1388.6	1478.6	1559.9	1665.0	1616.6	1600.2	1815.4	2051.2	2107.1	1418.7
60°	1197.1	1200.6	1316.7	1466.4	1677.8	1815.2	1801.6	1944.7	2148.8	2231.1	1571.3
62.5°	830.5	837.8	975.0	1214.0	1519.7	1886.8	2144.3	2167.9	2288.6	2416.6	1795.1
65°	428.2	418.7	543.7	763.0	1145.7	1716.9	2421.9	2578.2	2591.8	2706.9	2110.1
67.5°	263.6	267.9	326.4	445.5	677.4	1247.7	2392.9	3079.6	3007.9	3063.2	2402.6
70°	198.0	203.2	243.5	304.9	413.0	713.4	1924.4	3201.2	3301.4	3287.2	2491.6
71°	172.2	177.6	219.5	277.4	346.9	550.6	1621.3	3073.9	3311.5	3309.1	2458.1
72.5°	146.7	150.2	182.9	235.0	292.5	386.0	1218.1	2756.9	3170.3	3251.4	2338.4
75°	115.2	117.9	132.5	179.3	230.3	237.0	653.7	2066.8	2603.8	2758.3	1946.7
77.5°	93.9	95.7	103.3	133.1	177.6	167.9	342.9	1345.3	1631.3	1786.8	1146.7
80°	74.6	76.6	81.1	90.2	133.1	119.7	163.6	681.7	788.0	786.4	457.7
82.5°	57.9	58.5	63.8	66.3	91.1	85.0	88.6	288.6	319.7	330.3	165.2
85°	36.6	38.4	56.5	50.8	54.5	49.8	43.7	114.6	141.3	139.2	66.1
87.5°	11.2	11.8	19.1	21.5	24.2	21.7	16.1	33.7	41.3	44.7	16.5
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°	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9
2.5°	456.5	454.3	446.3	439.8	433.7	427.0	421.3	419.7	418.3	417.7	417.5
5°	460.8	454.1	438.4	425.6	415.4	406.1	400.2	397.6	394.9	394.9	395.7
7.5°	466.9	454.7	430.5	411.4	398.6	389.8	385.6	385.2	385.8	386.4	386.6
10°	473.6	454.3	418.9	395.1	383.7	379.7	379.9	383.3	386.6	389.0	389.4
12.5°	480.1	451.8	405.3	379.9	372.6	373.4	379.1	386.8	393.1	396.5	396.7
15°	487.4	448.0	388.8	365.4	363.0	369.3	379.9	391.7	401.2	406.9	407.5
17.5°	493.5	441.5	371.5	351.4	354.5	366.1	380.7	395.9	407.5	414.6	415.8
20°	500.4	433.1	353.7	338.0	346.7	362.4	379.1	395.5	407.5	414.4	416.1
22.5°	505.9	421.3	336.6	327.0	339.8	357.9	373.6	386.8	396.5	400.2	402.6
25°	508.1	406.5	320.5	318.1	334.3	350.6	361.2	368.7	371.7	371.3	372.4
27.5°	506.9	389.4	306.7	311.0	327.4	339.2	344.5	343.9	338.4	333.3	335.8
30°	501.8	369.1	295.1	303.7	318.5	325.0	324.2	316.3	305.9	296.3	296.9
32.5°	492.7	347.2	284.3	295.3	305.9	308.7	303.2	292.9	278.0	265.6	263.8
35°	485.0	326.2	274.8	285.8	293.3	291.9	286.6	273.2	259.8	248.8	246.9
37.5°	483.7	308.3	265.6	275.0	279.3	277.2	270.7	259.3	254.5	246.1	245.1
40°	490.2	295.7	256.3	263.6	265.6	264.0	256.9	250.4	254.9	252.8	252.8
42.5°	507.9	289.0	248.0	252.2	253.9	255.1	250.0	244.5	250.0	240.6	237.6
45°	536.0	289.2	240.4	241.1	245.9	250.2	246.7	238.6	235.8	217.1	213.4
47.5°	577.2	296.1	234.3	230.5	239.2	246.3	241.5	229.7	217.1	204.7	202.4
50°	625.4	308.5	228.9	219.5	230.3	241.5	237.8	224.0	211.0	203.5	202.0
52.5°	678.9	324.2	222.2	207.3	219.3	239.2	238.6	223.2	205.3	200.2	199.0
55°	744.9	339.6	213.8	193.1	209.6	237.4	236.4	216.5	204.1	200.4	200.0
57.5°	821.7	362.0	201.8	178.7	198.4	229.9	227.6	212.4	200.0	197.4	197.2
60°	945.5	396.7	184.8	165.4	187.0	216.7	219.5	205.5	193.5	192.9	192.7
62.5°	1108.3	445.5	167.1	151.8	173.8	199.6	207.7	196.1	186.6	189.6	190.0
65°	1333.1	486.6	148.8	140.2	159.1	183.1	196.5	187.4	178.9	184.8	184.8
67.5°	1479.7	487.4	132.1	128.3	144.3	169.3	184.8	177.0	168.9	178.9	179.3
70°	1449.2	427.0	118.3	115.6	129.9	154.5	171.7	165.6	156.3	165.2	162.0
71°	1400.0	393.5	112.8	110.8	124.2	147.4	165.6	160.6	151.2	157.1	155.3
72.5°	1321.5	341.7	103.9	104.3	115.6	138.4	157.1	151.8	142.5	145.7	145.1
75°	1117.1	298.4	88.8	90.6	99.4	123.2	140.0	136.0	126.4	126.4	125.8
77.5°	698.4	208.5	73.8	74.8	84.3	105.5	120.3	116.9	107.7	104.7	103.9
80°	260.6	107.7	57.7	58.9	64.8	83.1	99.6	96.3	87.0	83.5	80.3
82.5°	98.6	54.1	42.5	41.5	47.8	63.4	78.0	74.2	66.9	58.5	56.1
85°	37.2	26.8	26.0	25.2	28.0	37.6	48.4	47.6	39.8	33.9	33.3
87.5°	9.8	8.7	10.2	7.5	7.9	7.1	7.3	3.0	1.4	0.6	0.4
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)