

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: P648229

Luminaire Tested: **GALN-SA1B-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4594.6 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

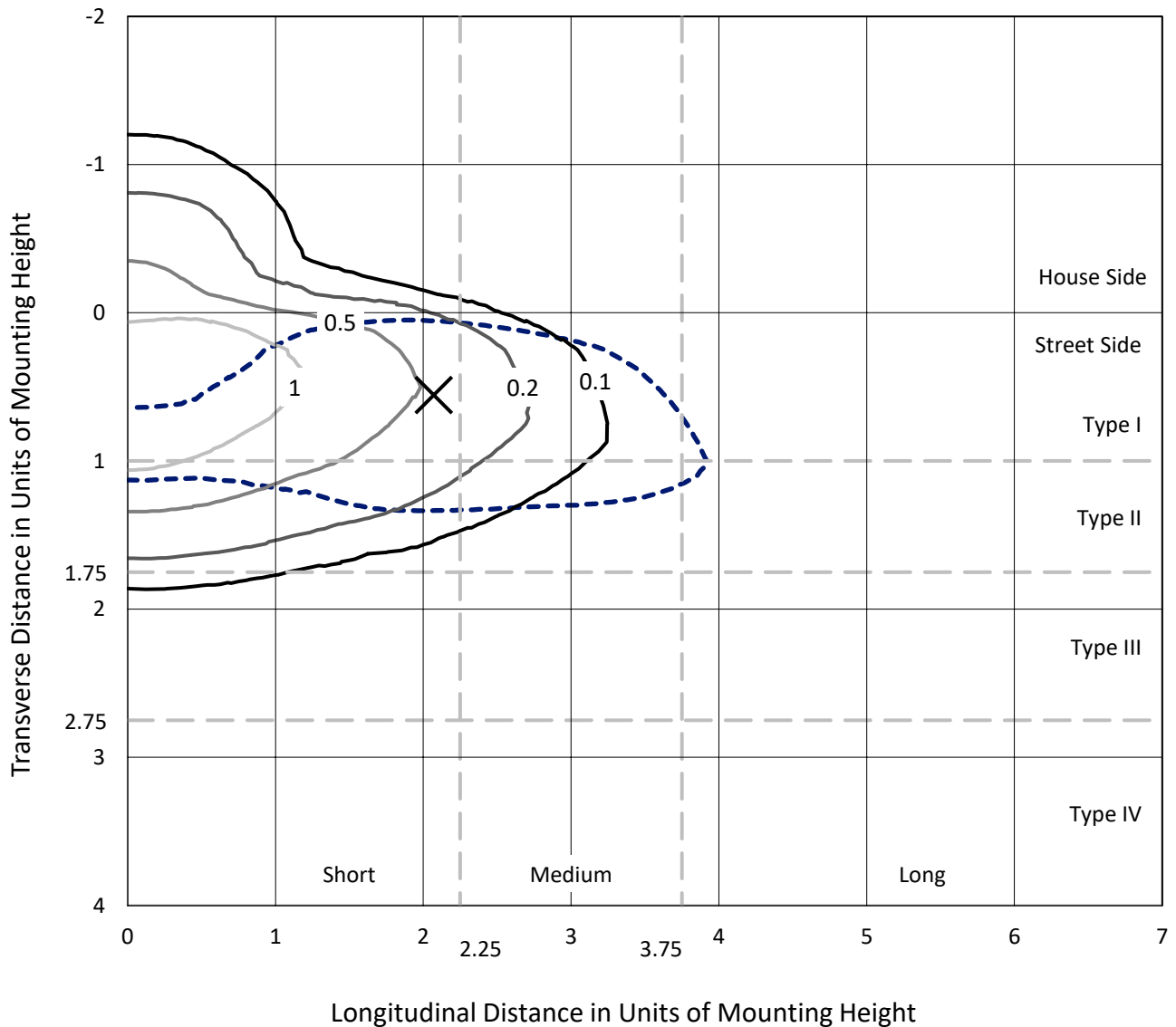
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

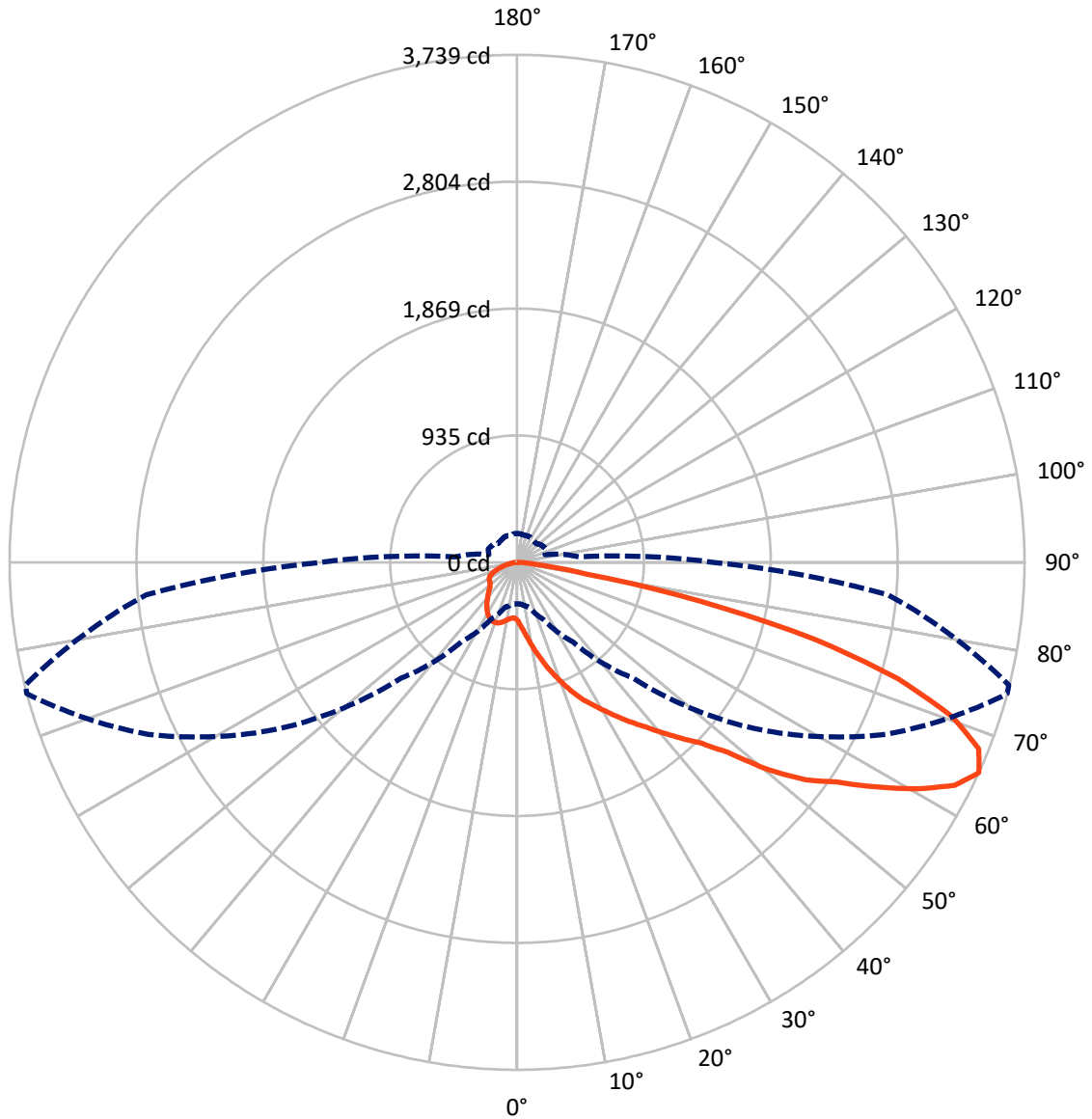
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.4	0.0	772.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3822.2	0.0	3822.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	4594.6	0.0	4594.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.1
10°-20°	203.2	4.4
20°-30°	392.4	8.5
30°-40°	637.4	13.9
40°-50°	876.8	19.1
50°-60°	1035.2	22.5
60°-70°	907.0	19.7
70°-80°	433.0	9.4
80°-90°	57.6	1.3
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°	4594.6	100.0
0°-180°	4594.6	100.0

Coefficient of Utilization

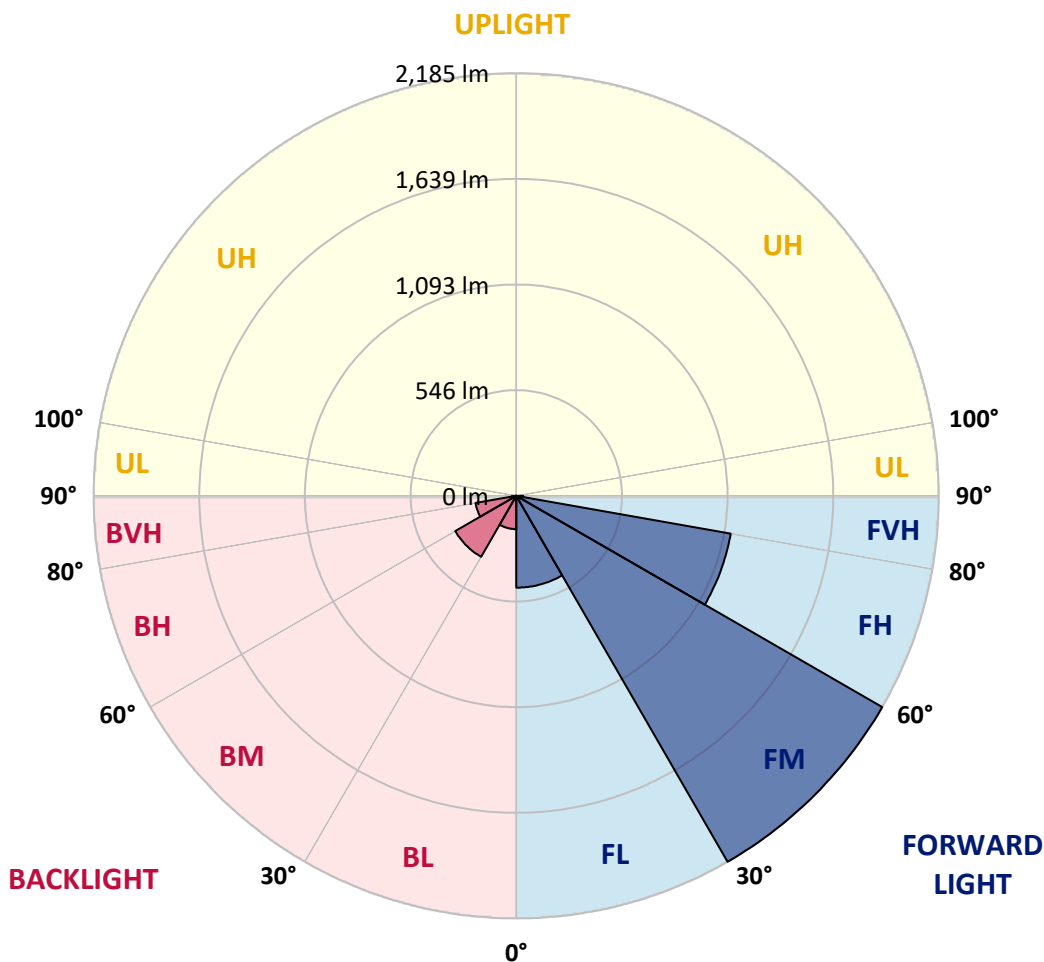


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.0	10.3			
FM (30°-60°)	2185.3	47.6			
FH (60°-80°)	1125.9	24.5			G1/1800
FVH (80°-90°)	36.0	0.8			G1/100
BL (0°-30°)	172.4	3.8	B1/500		
BM (30°-60°)	364.2	7.9	B1/1000		
BH (60°-80°)	214.2	4.7	B1/500		G1/500
BVH (80°-90°)	21.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	567.2	563.4	559.5	548.5	536.8	523.6	504.6	486.5	462.3	461.6	443.6
5°	724.4	722.0	704.3	694.1	666.9	630.8	600.1	552.5	508.4	503.2	468.2
7.5°	869.0	859.3	852.5	834.1	807.2	760.8	701.6	637.2	563.4	556.5	498.7
10°	977.9	976.9	973.4	957.5	937.3	891.2	825.4	733.2	633.2	619.5	535.6
12.5°	1059.4	1060.2	1059.6	1059.4	1044.9	1005.8	934.5	837.3	703.8	694.1	578.2
15°	1113.0	1120.5	1123.4	1135.9	1137.2	1111.0	1049.7	938.0	783.2	768.8	624.1
17.5°	1148.3	1152.1	1166.0	1187.3	1204.4	1199.7	1145.1	1031.2	864.5	840.3	671.7
20°	1182.3	1188.8	1199.5	1228.4	1258.8	1272.7	1234.3	1126.7	945.0	929.6	724.2
22.5°	1252.8	1262.0	1265.7	1280.4	1306.4	1331.0	1313.6	1218.1	1033.2	1012.3	780.0
25°	1372.1	1381.9	1371.4	1367.9	1376.4	1388.6	1384.9	1304.4	1116.5	1086.6	832.9
27.5°	1527.6	1528.9	1508.4	1489.0	1468.1	1461.9	1450.4	1380.9	1188.8	1163.9	886.0
30°	1694.6	1688.7	1654.8	1619.6	1584.2	1549.3	1516.4	1454.7	1269.2	1240.6	938.0
32.5°	1849.7	1846.4	1808.8	1754.2	1694.4	1661.5	1595.0	1529.2	1355.5	1327.8	991.6
35°	1965.8	1970.5	1929.2	1869.6	1804.3	1775.1	1691.1	1607.4	1444.7	1414.5	1049.9
37.5°	2048.2	2045.7	2009.2	1957.6	1900.3	1874.8	1803.6	1692.9	1540.6	1511.7	1113.7
40°	2077.7	2076.2	2049.0	2011.4	1975.0	1966.0	1921.2	1785.1	1650.6	1616.7	1190.5
42.5°	2059.0	2062.3	2044.3	2034.1	2027.3	2033.8	2038.1	1906.0	1770.4	1739.3	1273.7
45°	2001.7	1999.9	1997.4	2014.1	2052.0	2094.6	2153.7	2020.1	1900.7	1875.8	1385.4
47.5°	1899.2	1911.7	1918.0	1964.1	2046.8	2147.7	2286.8	2173.1	2089.9	2068.2	1555.6
50°	1756.0	1765.9	1802.8	1884.8	2008.2	2167.7	2416.9	2423.3	2405.4	2364.7	1740.5
52.5°	1532.2	1547.6	1623.6	1773.9	1928.9	2159.4	2495.6	2637.9	2661.6	2631.2	1922.7
55°	1281.7	1303.4	1383.6	1580.7	1819.8	2114.6	2549.9	2762.3	2856.7	2828.6	2098.1
57.5°	1036.5	1059.4	1141.9	1332.8	1629.3	2015.4	2585.5	2900.9	3122.4	3085.7	2316.4
60°	776.8	800.7	871.5	1068.1	1358.2	1821.5	2561.4	3021.0	3387.8	3372.1	2535.0
62.5°	501.2	527.6	589.1	751.8	1044.0	1556.6	2432.1	3087.2	3617.5	3598.6	2694.5
65°	305.3	308.3	342.2	466.7	714.5	1205.2	2136.3	2999.3	3738.7	3733.0	2743.1
67.5°	197.4	202.1	217.6	279.6	428.4	837.1	1708.1	2708.9	3667.9	3665.9	2642.6
70°	166.7	168.2	175.2	188.6	249.0	507.6	1199.5	2246.1	3399.0	3399.0	2401.1
72.5°	149.0	151.0	153.5	157.8	177.7	287.6	715.7	1748.4	2934.7	2954.2	2043.8
75°	135.3	134.8	136.3	137.1	151.5	187.9	370.0	1293.1	2270.3	2231.5	1480.1
77.5°	115.9	116.7	115.9	119.1	133.8	143.1	187.9	867.7	1375.9	1325.5	742.9
80°	95.2	96.5	97.7	99.7	114.4	108.7	112.9	395.5	508.9	498.1	229.5
82.5°	71.5	73.3	75.2	80.0	90.0	71.8	71.3	169.0	183.7	168.2	84.5
85°	28.9	34.1	51.6	56.3	56.5	39.4	43.8	70.5	75.0	73.3	33.1
87.5°	6.7	8.0	16.7	25.1	23.2	14.7	16.2	22.9	26.2	24.2	11.2
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°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	435.3	426.7	411.7	400.3	392.0	384.8	380.3	377.6	376.5	376.3	376.5
5°	450.1	434.6	410.9	396.0	387.7	383.0	380.3	380.1	380.3	380.5	379.8
7.5°	470.3	448.1	417.2	403.2	397.0	393.5	392.3	391.7	392.0	391.7	391.7
10°	497.2	466.7	429.4	414.9	409.7	405.8	403.7	402.5	401.4	400.5	400.0
12.5°	526.8	487.5	442.6	428.6	421.2	414.9	410.4	407.2	405.0	402.7	402.2
15°	560.0	509.4	457.3	437.9	427.1	418.0	410.2	405.0	401.0	397.8	397.5
17.5°	591.6	530.1	467.3	442.1	426.4	413.4	403.2	396.0	391.0	386.8	386.3
20°	625.5	549.7	471.8	439.3	418.9	403.2	389.8	381.0	375.3	370.6	369.8
22.5°	659.7	566.4	471.3	430.6	406.0	387.5	373.3	364.1	357.4	352.7	350.9
25°	692.3	579.9	465.0	416.7	388.1	368.9	354.4	345.9	339.9	334.2	334.2
27.5°	721.7	587.9	453.3	399.7	369.6	349.4	337.9	330.2	324.7	321.0	318.8
30°	750.7	591.6	437.4	378.3	350.2	332.9	323.7	319.2	314.2	310.0	309.5
32.5°	776.6	590.9	417.4	357.4	331.7	319.5	315.8	312.3	307.0	301.1	299.6
35°	801.7	585.9	393.8	334.4	316.3	311.5	312.5	307.6	298.1	290.6	289.3
37.5°	829.1	576.9	367.9	315.8	303.3	307.8	310.3	299.3	283.8	272.2	269.4
40°	860.8	566.7	340.9	297.1	293.1	304.3	304.3	284.1	262.9	255.7	253.7
42.5°	897.9	558.2	318.5	281.3	284.6	295.8	294.6	263.9	255.2	251.4	250.5
45°	956.7	555.2	295.3	267.6	277.7	285.9	275.6	256.9	252.0	249.0	248.0
47.5°	1049.7	558.7	274.9	257.5	269.7	275.9	254.5	252.2	248.7	244.5	244.0
50°	1135.9	555.5	260.4	251.7	262.7	263.9	245.7	246.5	244.5	239.8	238.7
52.5°	1206.4	545.3	251.2	248.7	256.7	243.0	237.5	240.2	239.5	233.5	232.6
55°	1284.0	539.0	246.7	248.7	252.7	224.8	229.8	233.7	232.8	228.6	228.2
57.5°	1377.9	540.3	243.5	249.5	248.7	215.6	222.1	226.8	226.5	225.3	225.3
60°	1474.1	540.8	238.5	249.2	244.0	208.4	214.1	220.8	221.3	222.1	222.1
62.5°	1506.0	519.1	228.8	244.7	233.5	201.4	206.6	215.8	215.3	217.3	217.6
65°	1446.4	459.1	214.3	234.5	220.0	196.4	200.8	209.4	206.6	211.8	212.8
67.5°	1316.6	379.8	191.9	216.0	205.1	191.1	197.2	200.4	195.4	205.6	205.9
70°	1137.9	296.6	163.5	189.9	188.2	185.6	194.1	189.2	182.2	194.7	192.1
72.5°	951.5	226.5	130.6	155.3	165.4	177.4	188.9	174.7	165.0	168.7	164.2
75°	714.7	167.5	104.9	121.6	137.8	165.8	184.2	157.2	142.3	138.8	137.8
77.5°	364.3	109.4	78.5	91.0	103.4	149.8	177.7	136.8	117.8	112.4	109.9
80°	130.1	68.0	55.4	62.8	69.8	128.9	155.3	113.1	91.5	90.4	91.5
82.5°	60.3	43.8	37.1	41.1	41.3	86.0	118.4	84.5	69.5	105.7	89.2
85°	25.9	21.9	20.9	20.4	18.9	38.4	66.6	45.3	70.8	31.6	29.1
87.5°	7.8	8.7	7.8	5.7	4.2	4.2	6.7	2.5	1.7	1.3	1.3
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)