

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: P450239

Luminaire Tested: **GALN-SA1A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450239
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-SA1A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295 lumens
Efficiency: N/A
Efficacy: 130.2 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

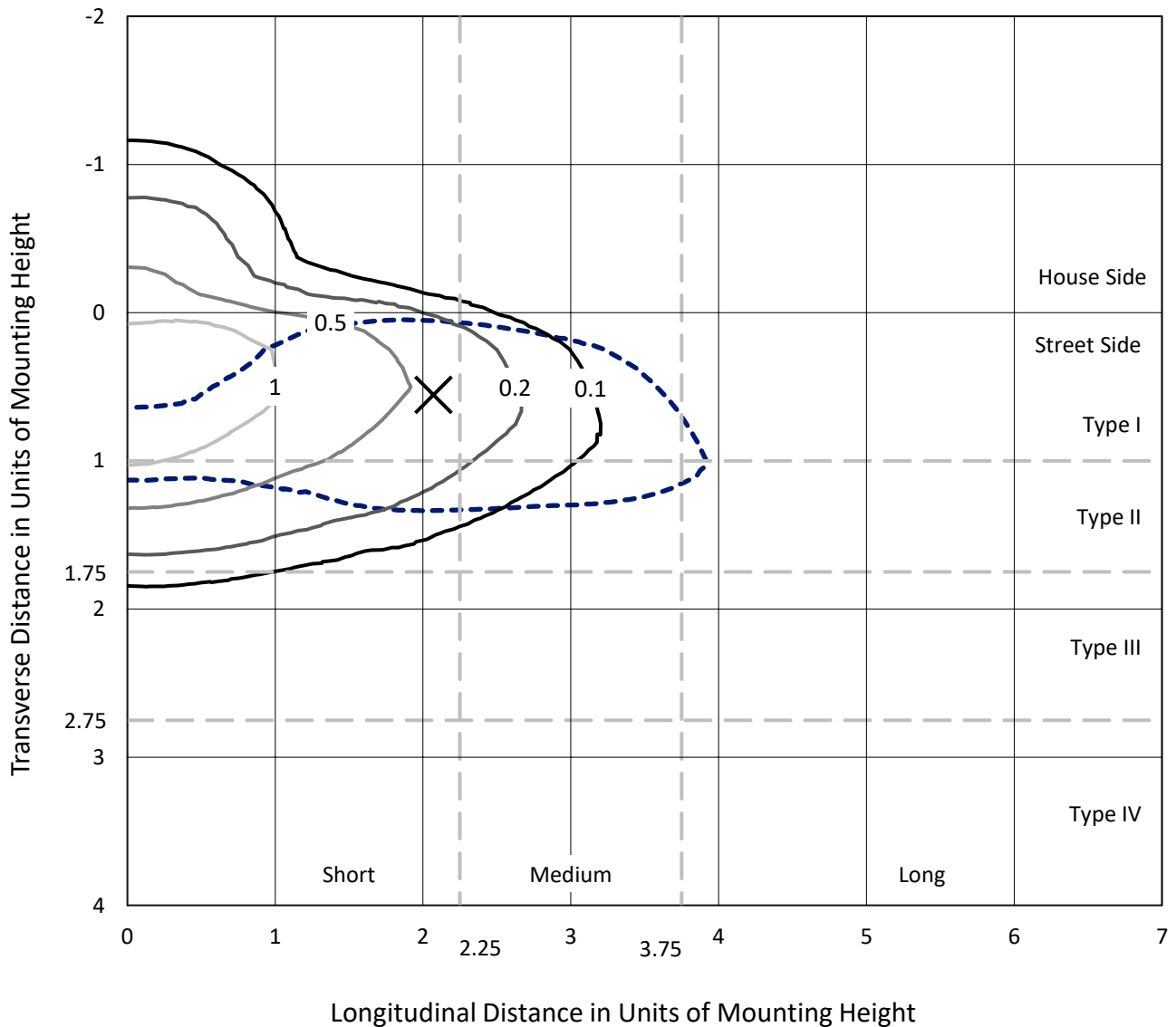
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

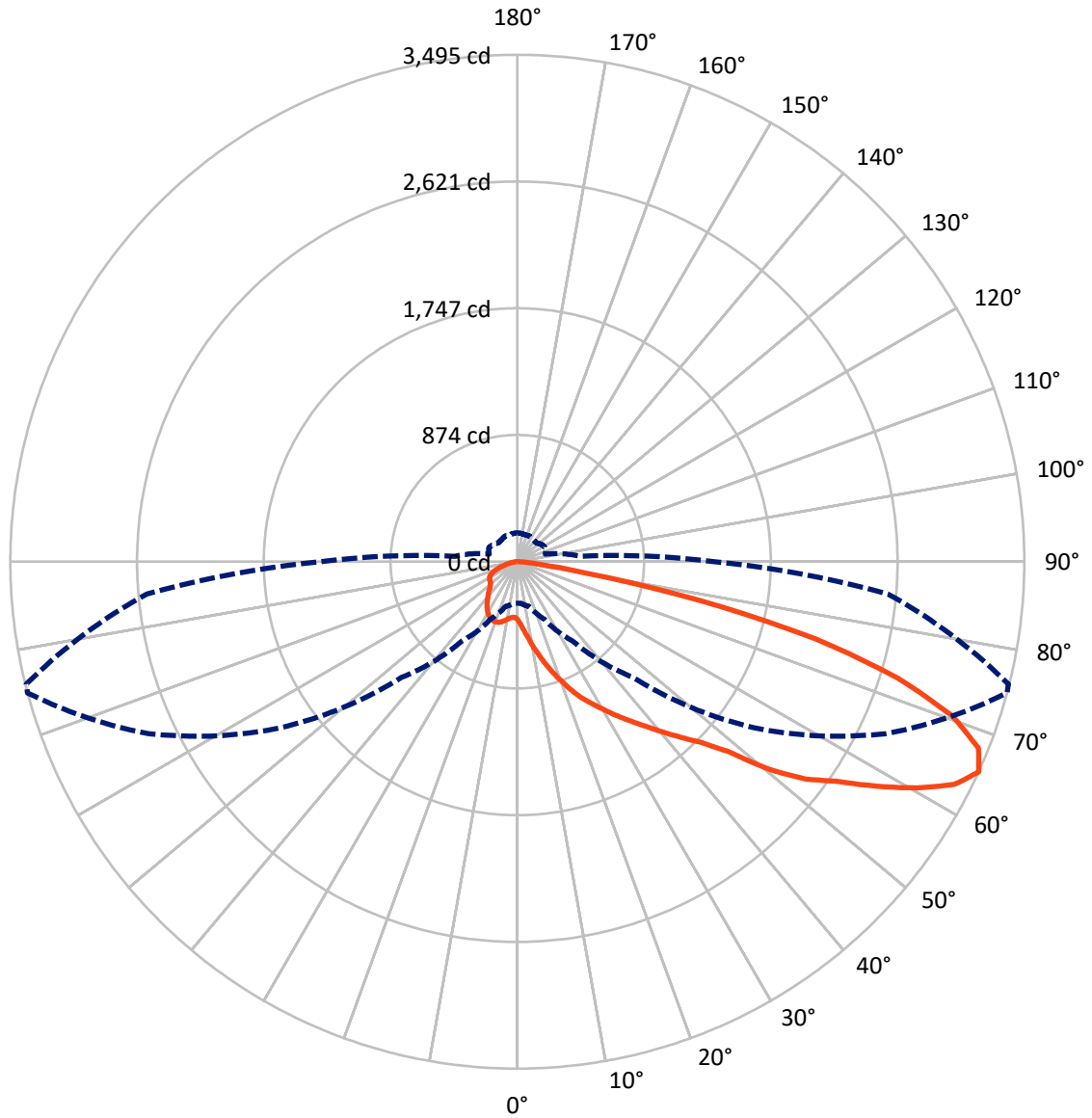
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	722.1	0.0	722.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3573.0	0.0	3573.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	4295.0	0.0	4295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	189.9	4.4
20°-30°	366.8	8.5
30°-40°	595.9	13.9
40°-50°	819.7	19.1
50°-60°	967.7	22.5
60°-70°	847.9	19.7
70°-80°	404.8	9.4
80°-90°	53.9	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°	4295.0	100.0
0°-180°	4295.0	100.0

Coefficient of Utilization



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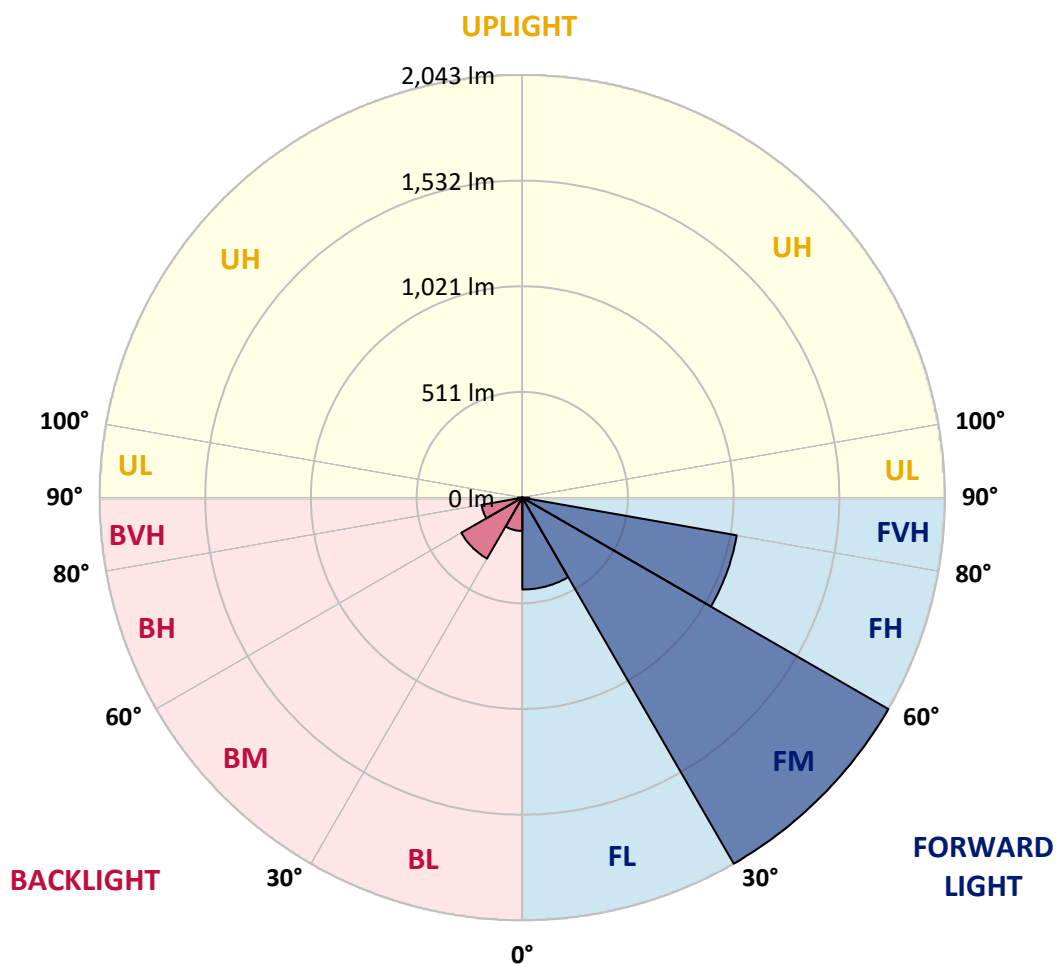
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.0	10.3			
FM (30°-60°)	2042.8	47.6			
FH (60°-80°)	1052.5	24.5			G1/1800
FVH (80°-90°)	33.7	0.8			G1/100
BL (0°-30°)	161.2	3.8	B1/500		
BM (30°-60°)	340.4	7.9	B1/1000		
BH (60°-80°)	200.2	4.7	B1/500		G1/500
BVH (80°-90°)	20.2	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°	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1
2.5°	530.2	526.7	523.0	512.7	501.8	489.4	471.7	454.7	432.1	431.4	414.7
5°	677.2	674.9	658.3	648.8	623.4	589.6	561.0	516.5	475.2	470.3	437.7
7.5°	812.3	803.2	797.0	779.7	754.6	711.2	655.8	595.7	526.7	520.2	466.2
10°	914.1	913.2	909.9	895.0	876.2	833.1	771.6	685.4	592.0	579.1	500.6
12.5°	990.3	991.0	990.5	990.3	976.8	940.2	873.6	782.7	657.9	648.8	540.5
15°	1040.4	1047.4	1050.2	1061.8	1063.0	1038.5	981.2	876.9	732.2	718.7	583.3
17.5°	1073.5	1077.0	1090.0	1109.8	1125.9	1121.5	1070.4	964.0	808.1	785.5	627.8
20°	1105.2	1111.2	1121.2	1148.3	1176.7	1189.7	1153.8	1053.2	883.4	868.9	677.0
22.5°	1171.1	1179.7	1183.2	1196.9	1221.2	1244.2	1227.9	1138.7	965.9	946.3	729.2
25°	1282.7	1291.8	1282.0	1278.7	1286.6	1298.1	1294.6	1219.3	1043.7	1015.7	778.6
27.5°	1428.0	1429.2	1410.1	1391.9	1372.4	1366.5	1355.8	1290.8	1111.2	1087.9	828.2
30°	1584.1	1578.5	1546.9	1514.0	1480.9	1448.3	1417.6	1359.8	1186.5	1159.7	876.9
32.5°	1729.0	1726.0	1690.8	1639.8	1583.9	1553.1	1490.9	1429.4	1267.1	1241.2	926.9
35°	1837.6	1842.0	1803.3	1747.7	1686.6	1659.4	1580.9	1502.6	1350.5	1322.3	981.5
37.5°	1914.7	1912.4	1878.1	1829.9	1776.3	1752.6	1685.9	1582.5	1440.2	1413.1	1041.1
40°	1942.2	1940.8	1915.4	1880.2	1846.2	1837.8	1795.9	1668.7	1542.9	1511.2	1112.8
42.5°	1924.7	1927.7	1911.0	1901.4	1895.1	1901.2	1905.1	1781.7	1654.9	1625.8	1190.7
45°	1871.1	1869.5	1867.2	1882.8	1918.2	1958.0	2013.2	1888.4	1776.8	1753.5	1295.0
47.5°	1775.4	1787.0	1792.9	1836.0	1913.3	2007.6	2137.6	2031.4	1953.6	1933.3	1454.1
50°	1641.4	1650.8	1685.2	1761.9	1877.2	2026.3	2259.2	2265.3	2248.5	2210.6	1627.0
52.5°	1432.2	1446.7	1517.7	1658.2	1803.1	2018.6	2332.9	2465.9	2488.0	2459.6	1797.3
55°	1198.1	1218.4	1293.4	1477.7	1701.1	1976.7	2383.6	2582.1	2670.4	2644.1	1961.3
57.5°	968.9	990.3	1067.4	1245.9	1523.1	1883.9	2417.0	2711.6	2918.8	2884.5	2165.4
60°	726.1	748.5	814.7	998.5	1269.6	1702.7	2394.4	2823.9	3166.9	3152.2	2369.7
62.5°	468.5	493.2	550.7	702.8	975.9	1455.1	2273.5	2885.9	3381.6	3363.9	2518.8
65°	285.4	288.2	319.9	436.3	667.9	1126.6	1996.9	2803.7	3494.9	3489.5	2564.2
67.5°	184.5	188.9	203.4	261.4	400.5	782.5	1596.7	2532.3	3428.7	3426.8	2470.3
70°	155.8	157.2	163.8	176.4	232.7	474.5	1121.2	2099.7	3177.3	3177.3	2244.6
72.5°	139.3	141.2	143.5	147.5	166.1	268.8	669.1	1634.4	2743.3	2761.5	1910.5
75°	126.5	126.0	127.4	128.1	141.6	175.7	345.9	1208.8	2122.3	2085.9	1383.5
77.5°	108.3	109.0	108.3	111.4	125.1	133.7	175.7	811.2	1286.2	1239.1	694.5
80°	89.0	90.2	91.3	93.2	106.9	101.6	105.5	369.7	475.7	465.7	214.6
82.5°	66.9	68.5	70.4	74.8	84.1	67.1	66.6	157.9	171.7	157.2	79.0
85°	27.0	31.9	48.2	52.6	52.9	36.8	41.0	65.9	70.1	68.5	31.0
87.5°	6.3	7.5	15.6	23.5	21.7	13.7	15.1	21.4	24.5	22.6	10.5
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°	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1
2.5°	407.0	398.8	384.8	374.1	366.4	359.7	355.5	352.9	352.0	351.8	352.0
5°	420.7	406.3	384.2	370.2	362.5	358.1	355.5	355.3	355.5	355.7	355.0
7.5°	439.6	418.9	390.0	376.9	371.1	367.8	366.7	366.2	366.4	366.2	366.2
10°	464.8	436.3	401.4	387.9	383.0	379.3	377.4	376.2	375.3	374.4	373.9
12.5°	492.5	455.7	413.7	400.7	393.7	387.9	383.7	380.7	378.6	376.5	376.0
15°	523.5	476.2	427.5	409.3	399.3	390.7	383.5	378.6	374.8	371.8	371.6
17.5°	553.0	495.5	436.8	413.3	398.6	386.5	376.9	370.2	365.5	361.6	361.1
20°	584.7	513.9	441.0	410.7	391.6	376.9	364.3	356.2	350.8	346.4	345.7
22.5°	616.6	529.5	440.5	402.6	379.5	362.3	349.0	340.4	334.1	329.6	328.0
25°	647.2	542.1	434.7	389.5	362.7	344.8	331.3	323.3	317.8	312.4	312.4
27.5°	674.7	549.6	423.8	373.7	345.5	326.6	315.9	308.7	303.5	300.1	298.0
30°	701.7	553.0	408.8	353.6	327.3	311.2	302.6	298.4	293.8	289.8	289.3
32.5°	725.9	552.3	390.2	334.1	310.1	298.7	295.2	291.9	287.0	281.4	280.0
35°	749.4	547.7	368.1	312.6	295.6	291.2	292.1	287.5	278.6	271.6	270.5
37.5°	775.1	539.3	343.8	295.2	283.5	287.7	290.0	279.8	265.3	254.4	251.8
40°	804.6	529.8	318.7	277.7	274.0	284.4	284.4	265.6	245.8	239.0	237.2
42.5°	839.4	521.8	297.7	263.0	266.0	276.5	275.4	246.7	238.6	235.1	234.1
45°	894.3	519.0	276.1	250.2	259.5	267.2	257.7	240.2	235.5	232.7	231.8
47.5°	981.2	522.3	257.0	240.6	252.1	257.9	237.9	235.8	232.5	228.5	228.1
50°	1061.8	519.3	243.4	235.3	245.5	246.7	229.7	230.4	228.5	224.1	223.2
52.5°	1127.8	509.7	234.8	232.5	239.9	227.1	222.0	224.6	223.9	218.3	217.4
55°	1200.2	503.9	230.6	232.5	236.2	210.1	214.8	218.5	217.6	213.6	213.4
57.5°	1288.0	505.1	227.6	233.2	232.5	201.5	207.6	212.0	211.8	210.6	210.6
60°	1378.0	505.5	222.9	233.0	228.1	194.8	200.1	206.4	206.9	207.6	207.6
62.5°	1407.8	485.3	213.9	228.8	218.3	188.2	193.1	201.7	201.3	203.1	203.4
65°	1352.1	429.1	200.3	219.2	205.7	183.6	187.8	195.7	193.1	198.0	198.9
67.5°	1230.7	355.0	179.4	202.0	191.7	178.7	184.3	187.3	182.6	192.2	192.4
70°	1063.7	277.2	152.8	177.5	175.9	173.6	181.5	176.8	170.3	181.9	179.6
72.5°	889.4	211.8	122.1	145.1	154.7	165.9	176.6	163.3	154.2	157.7	153.5
75°	668.1	156.5	98.1	113.7	128.8	154.9	172.2	147.0	133.0	129.8	128.8
77.5°	340.6	102.3	73.4	85.0	96.7	140.0	166.1	127.9	110.2	105.1	102.7
80°	121.6	63.6	51.7	58.7	65.2	120.4	145.1	105.8	85.5	84.6	85.5
82.5°	56.4	41.0	34.7	38.4	38.7	80.4	110.7	79.0	65.0	98.8	83.4
85°	24.2	20.5	19.6	19.1	17.7	35.9	62.2	42.4	66.2	29.6	27.3
87.5°	7.2	8.2	7.2	5.4	4.0	4.0	6.3	2.3	1.6	1.2	1.2
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)