

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: P458531

Luminaire Tested: **GALN-SA1A-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458531
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-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335 lumens
Efficiency: N/A
Efficacy: 131.4 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

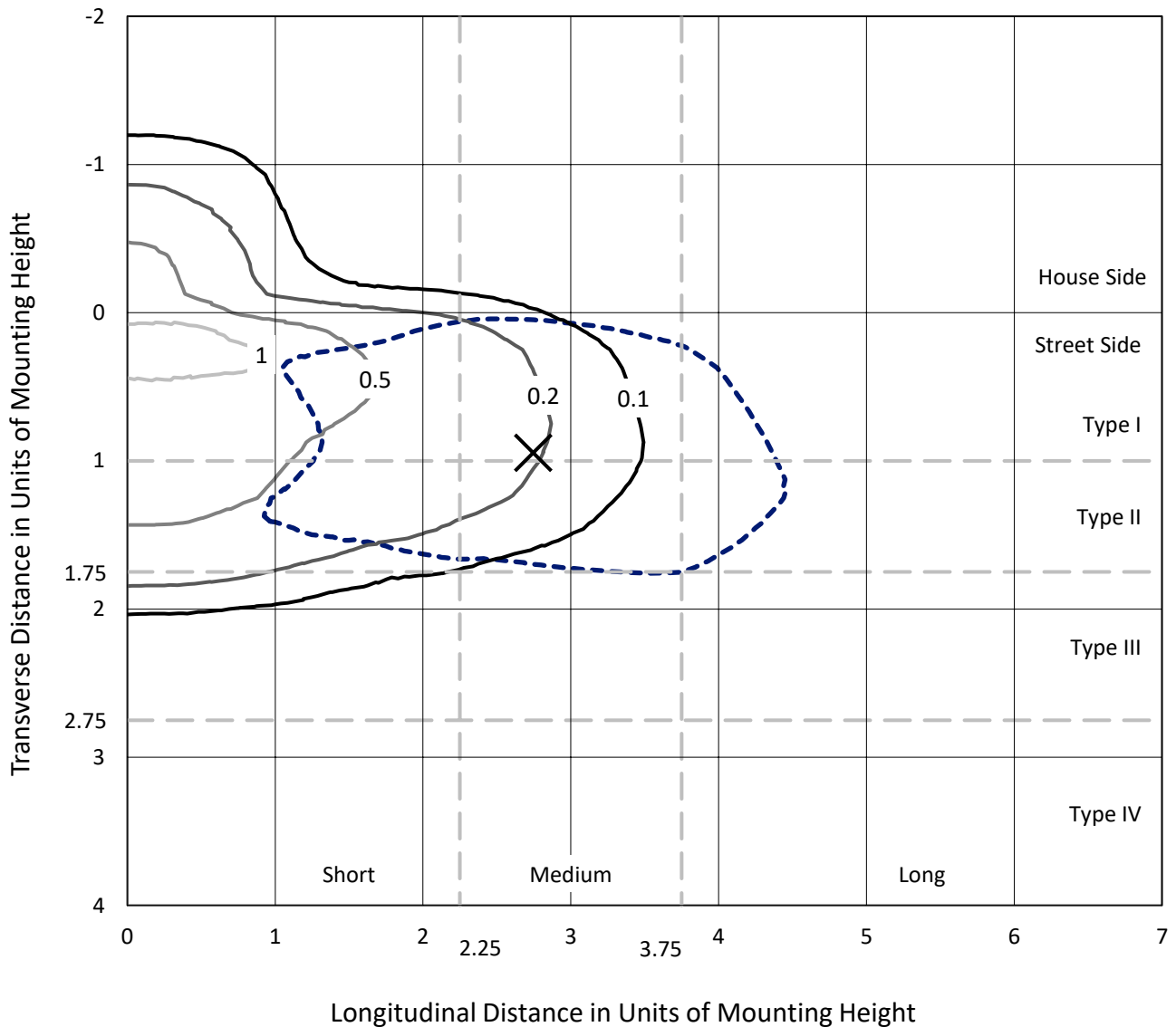
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

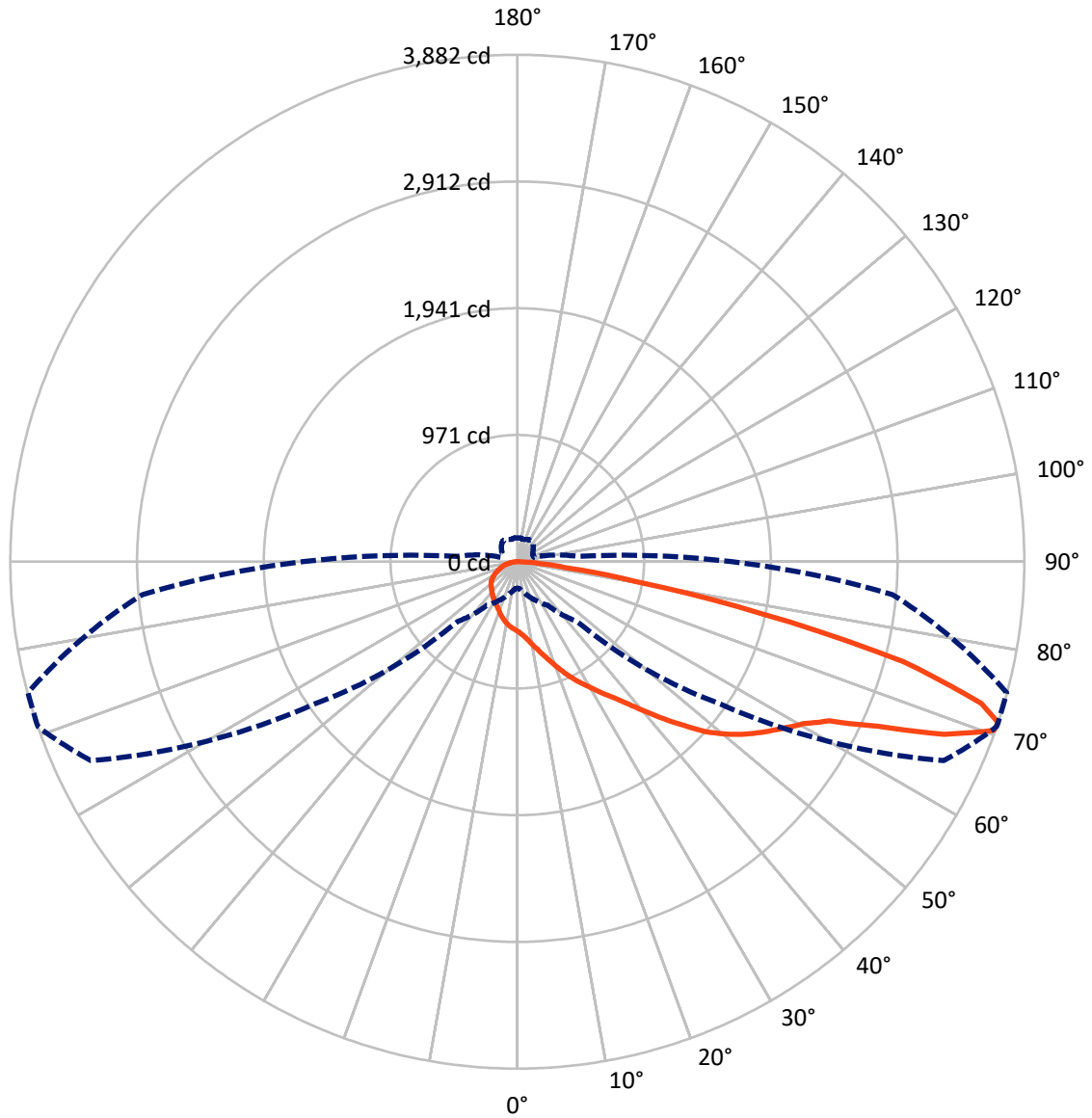
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.6	0.0	779.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	3555.4	0.0	3555.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	4335.0	0.0	4335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.2
10°-20°	173.6	4.0
20°-30°	303.3	7.0
30°-40°	451.1	10.4
40°-50°	664.7	15.3
50°-60°	930.6	21.5
60°-70°	1040.8	24.0
70°-80°	635.8	14.7
80°-90°	81.8	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°	4335.0	100.0
0°-180°	4335.0	100.0

Coefficient of Utilization



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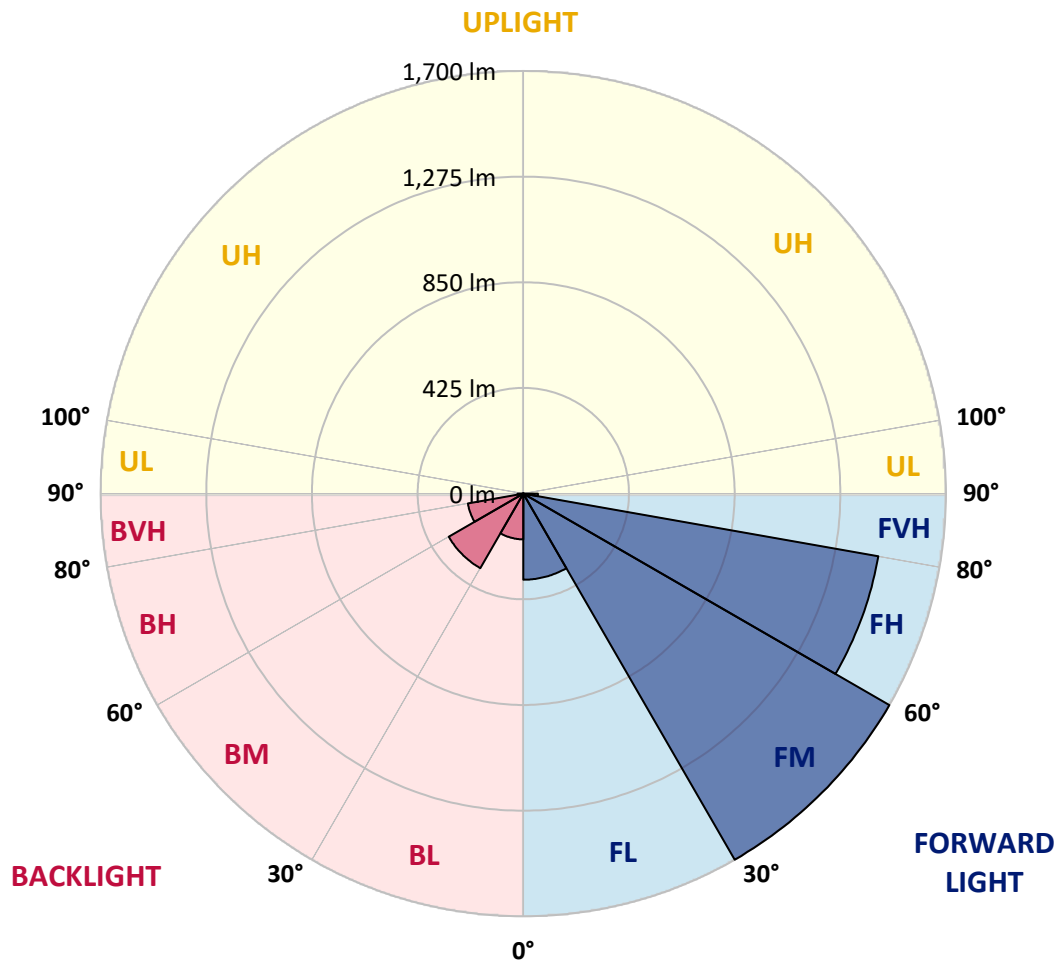
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.4	8.0			
FM (30°-60°)	1700.1	39.2			
FH (60°-80°)	1450.0	33.4			G1/1800
FVH (80°-90°)	58.8	1.4			G1/100
BL (0°-30°)	183.9	4.2	B1/500		
BM (30°-60°)	346.3	8.0	B1/1000		
BH (60°-80°)	226.5	5.2	B1/500		G1/500
BVH (80°-90°)	22.9	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°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	590.6	587.8	588.0	584.0	578.7	573.0	564.9	557.8	552.0	548.7	538.9
5°	654.5	651.6	648.1	639.3	635.4	621.4	603.5	587.3	574.9	568.0	548.5
7.5°	706.2	705.5	704.5	699.5	689.8	670.2	655.0	626.9	608.5	595.4	562.1
10°	738.1	739.3	740.0	741.0	736.9	726.7	705.7	670.2	646.9	630.2	579.7
12.5°	754.3	755.5	759.6	768.4	773.9	772.7	755.5	720.7	688.6	666.7	598.5
15°	764.3	766.2	773.4	785.1	803.4	815.1	806.8	774.6	739.3	713.4	620.9
17.5°	775.3	777.4	785.3	802.0	826.0	851.3	860.4	832.7	794.4	763.4	645.9
20°	781.5	784.4	795.6	817.5	845.6	882.3	912.3	897.8	855.8	821.5	674.8
22.5°	791.5	793.9	803.4	826.8	860.4	906.3	964.2	961.1	924.2	879.9	706.4
25°	818.7	822.5	827.2	841.3	873.7	930.9	1007.4	1028.8	990.4	940.9	735.5
27.5°	869.9	873.0	872.7	874.7	893.0	952.1	1044.8	1095.8	1056.2	1002.6	763.6
30°	928.3	929.5	930.4	926.1	930.2	973.8	1079.1	1162.0	1122.4	1066.0	788.2
32.5°	999.3	1001.6	993.5	982.6	979.3	1005.9	1107.4	1228.2	1200.8	1130.3	812.5
35°	1083.1	1089.3	1072.9	1053.6	1040.0	1052.2	1145.6	1295.9	1281.1	1212.5	844.6
37.5°	1178.9	1186.5	1171.3	1133.4	1114.1	1117.4	1195.4	1379.5	1382.6	1306.1	892.5
40°	1257.3	1267.3	1267.8	1214.2	1184.9	1188.7	1258.5	1469.6	1505.1	1421.9	949.0
42.5°	1309.0	1318.8	1329.0	1297.6	1266.8	1288.5	1332.1	1567.3	1642.8	1562.5	1027.9
45°	1365.7	1374.5	1380.2	1365.9	1348.8	1405.0	1421.0	1671.2	1789.6	1719.5	1114.1
47.5°	1431.5	1441.2	1446.7	1433.1	1426.7	1507.2	1516.8	1768.1	1946.4	1872.0	1209.4
50°	1519.1	1526.5	1523.7	1515.1	1513.7	1585.6	1608.7	1858.9	2075.7	2036.2	1308.3
52.5°	1628.3	1637.1	1640.2	1628.0	1622.6	1641.6	1682.8	1941.6	2193.4	2177.2	1413.8
55°	1694.3	1708.3	1755.5	1774.6	1787.7	1714.0	1762.7	2032.8	2299.0	2325.9	1527.2
57.5°	1609.7	1627.8	1733.3	1828.6	1951.8	1895.1	1875.8	2128.1	2404.5	2470.0	1663.1
60°	1403.4	1407.4	1543.5	1719.0	1966.8	2127.9	2111.9	2279.7	2518.9	2615.4	1842.0
62.5°	973.5	982.1	1142.9	1423.1	1781.5	2211.8	2513.6	2541.3	2682.8	2832.9	2104.3
65°	502.0	490.8	637.3	894.4	1343.1	2012.6	2839.1	3022.3	3038.3	3173.2	2473.6
67.5°	309.0	314.0	382.6	522.3	794.1	1462.7	2805.0	3610.1	3526.0	3590.8	2816.5
70°	232.1	238.3	285.4	357.4	484.1	836.3	2255.9	3752.6	3870.1	3853.4	2920.8
71°	201.8	208.2	257.3	325.2	406.7	645.4	1900.6	3603.5	3882.0	3879.1	2881.5
72.5°	172.0	176.1	214.4	275.4	342.9	452.5	1427.9	3231.8	3716.4	3811.5	2741.2
75°	135.1	138.2	155.3	210.1	269.9	277.8	766.2	2422.9	3052.4	3233.4	2282.1
77.5°	110.1	112.2	121.0	156.1	208.2	196.8	401.9	1577.0	1912.3	2094.5	1344.3
80°	87.4	89.8	95.1	105.8	156.1	140.3	191.8	799.1	923.7	921.8	536.6
82.5°	67.9	68.6	74.8	77.7	106.7	99.6	103.9	338.3	374.8	387.2	193.7
85°	42.9	45.0	66.2	59.6	63.9	58.4	51.2	134.4	165.6	163.2	77.4
87.5°	13.1	13.8	22.4	25.3	28.4	25.5	18.8	39.6	48.4	52.4	19.3
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°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	535.1	532.5	523.2	515.6	508.4	500.6	493.9	492.0	490.3	489.6	489.4
5°	540.1	532.3	513.9	498.9	487.0	476.0	469.1	466.0	462.9	462.9	463.9
7.5°	547.3	533.0	504.6	482.2	467.2	457.0	452.0	451.5	452.2	452.9	453.2
10°	555.1	532.5	491.1	463.2	449.8	445.1	445.3	449.4	453.2	456.0	456.5
12.5°	562.8	529.7	475.1	445.3	436.7	437.7	444.4	453.4	460.8	464.8	465.1
15°	571.3	525.1	455.8	428.4	425.5	432.9	445.3	459.1	470.3	477.0	477.7
17.5°	578.5	517.5	435.5	412.0	415.5	429.1	446.3	464.1	477.7	486.1	487.5
20°	586.6	507.7	414.6	396.2	406.5	424.8	444.4	463.7	477.7	485.8	487.7
22.5°	593.0	493.9	394.6	383.4	398.4	419.6	437.9	453.4	464.8	469.1	472.0
25°	595.7	476.5	375.7	372.9	391.9	411.0	423.4	432.2	435.8	435.3	436.5
27.5°	594.2	456.5	359.5	364.5	383.8	397.7	403.9	403.1	396.7	390.7	393.6
30°	588.3	432.7	346.0	356.0	373.4	381.0	380.0	370.7	358.6	347.4	348.1
32.5°	577.5	406.9	333.3	346.2	358.6	361.9	355.5	343.3	325.9	311.4	309.3
35°	568.5	382.4	322.1	335.0	343.8	342.1	335.9	320.2	304.5	291.6	289.5
37.5°	567.1	361.4	311.4	322.4	327.4	325.0	317.4	304.0	298.3	288.5	287.3
40°	574.7	346.7	300.4	309.0	311.4	309.5	301.2	293.5	298.8	296.4	296.4
42.5°	595.4	338.8	290.7	295.7	297.6	299.0	293.1	286.6	293.1	282.1	278.5
45°	628.3	339.0	281.9	282.6	288.3	293.3	289.2	279.7	276.4	254.5	250.2
47.5°	676.7	347.1	274.7	270.2	280.4	288.8	283.1	269.2	254.5	239.9	237.3
50°	733.1	361.7	268.3	257.3	269.9	283.1	278.8	262.6	247.3	238.5	236.8
52.5°	795.8	380.0	260.4	243.0	257.1	280.4	279.7	261.6	240.6	234.7	233.3
55°	873.2	398.1	250.7	226.3	245.6	278.3	277.1	253.7	239.2	234.9	234.4
57.5°	963.3	424.3	236.6	209.4	232.5	269.5	266.9	249.0	234.4	231.4	231.1
60°	1108.4	465.1	216.6	193.9	219.2	254.0	257.3	240.9	226.8	226.1	225.9
62.5°	1299.2	522.3	195.9	178.0	203.7	234.0	243.5	229.9	218.7	222.3	222.8
65°	1562.8	570.4	174.4	164.4	186.6	214.7	230.4	219.7	209.7	216.6	216.6
67.5°	1734.5	571.3	154.9	150.3	169.2	198.5	216.6	207.5	198.0	209.7	210.1
70°	1698.8	500.6	138.7	135.6	152.2	181.1	201.3	194.2	183.2	193.7	189.9
71°	1641.1	461.3	132.2	129.9	145.6	172.7	194.2	188.2	177.3	184.2	182.0
72.5°	1549.2	400.5	121.8	122.2	135.6	162.3	184.2	178.0	167.0	170.8	170.1
75°	1309.5	349.8	104.1	106.3	116.5	144.4	164.2	159.4	148.2	148.2	147.5
77.5°	818.7	244.5	86.5	87.7	98.9	123.7	141.1	137.0	126.3	122.7	121.8
80°	305.4	126.3	67.7	69.1	76.0	97.4	116.7	112.9	102.0	97.9	94.1
82.5°	115.6	63.4	49.8	48.6	56.0	74.3	91.5	87.0	78.4	68.6	65.8
85°	43.6	31.5	30.5	29.5	32.9	44.1	56.7	55.8	46.7	39.8	39.1
87.5°	11.4	10.2	11.9	8.8	9.3	8.3	8.6	3.6	1.7	0.7	0.5
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)