

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: P458568

Luminaire Tested: **GALN-SA1B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5352 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

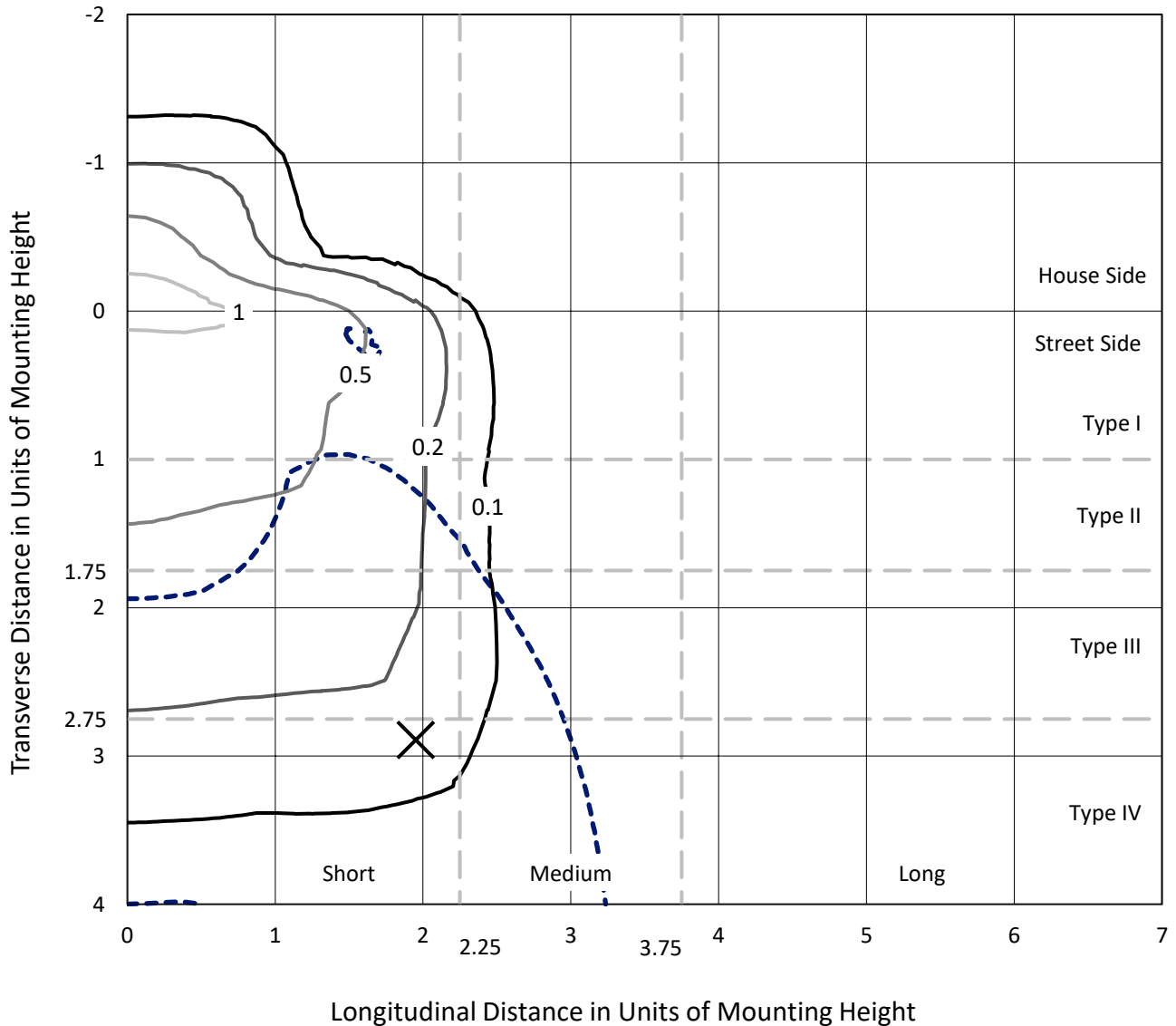
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

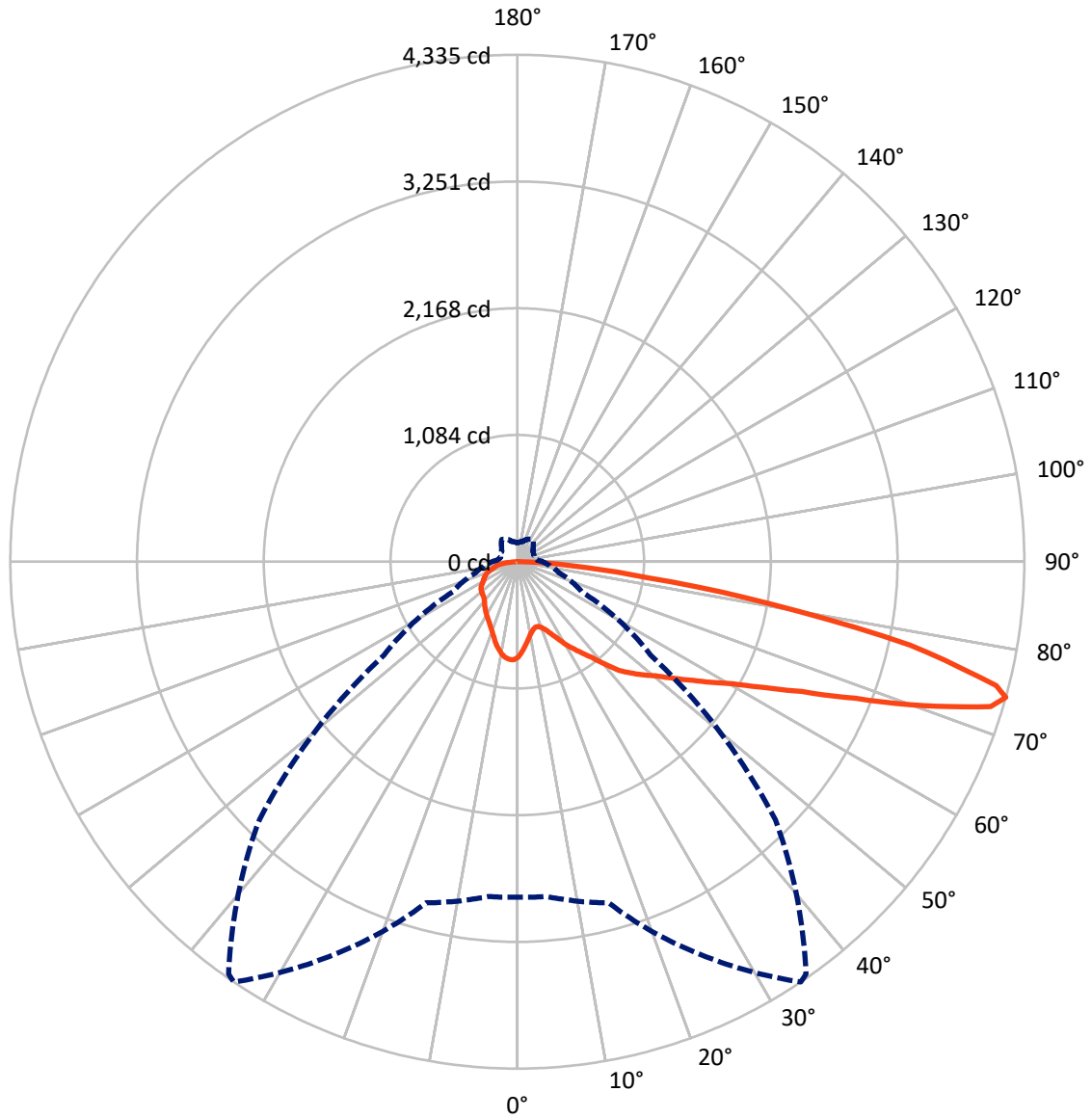
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.9	0.0	1138.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4213.1	0.0	4213.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	5352.0	0.0	5352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.4
10°-20°	203.4	3.8
20°-30°	335.4	6.3
30°-40°	502.4	9.4
40°-50°	730.4	13.6
50°-60°	1020.2	19.1
60°-70°	1277.2	23.9
70°-80°	1056.1	19.7
80°-90°	152.6	2.9
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°	5352.0	100.0
0°-180°	5352.0	100.0

Coefficient of Utilization



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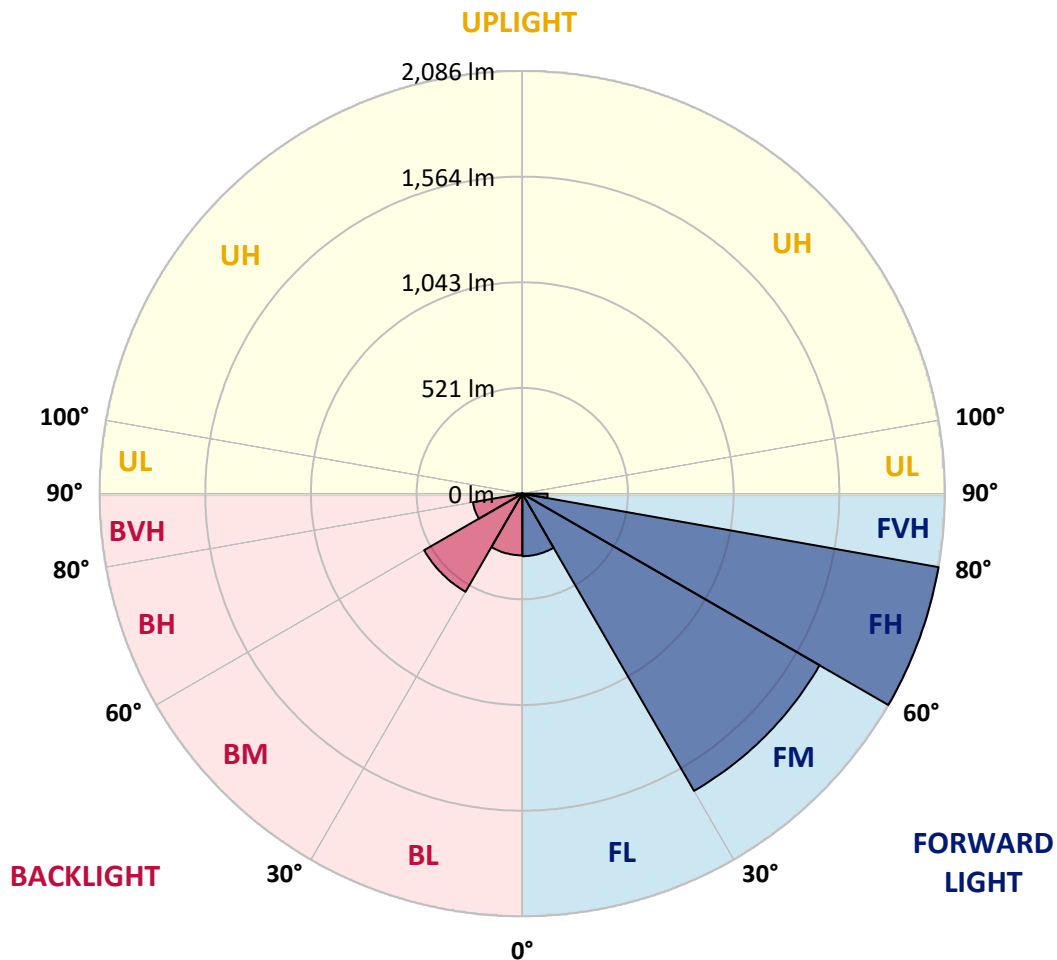
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.5	5.8			
FM (30°-60°)	1693.6	31.6			
FH (60°-80°)	2085.9	39.0			G2/5000
FVH (80°-90°)	125.0	2.3			G2/225
BL (0°-30°)	304.6	5.7	B1/500		
BM (30°-60°)	559.3	10.5	B1/1000		
BH (60°-80°)	247.4	4.6	B1/500		G1/500
BVH (80°-90°)	27.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	755.2	759.0	761.1	768.5	770.3	772.7	778.9	787.2	797.9	807.4	815.7
5°	692.3	698.2	701.8	708.3	721.1	722.3	738.9	757.8	779.5	799.7	816.3
7.5°	632.7	639.2	642.2	654.1	671.0	673.6	698.0	727.9	764.1	794.6	820.1
10°	588.0	591.2	597.7	606.6	626.8	628.6	660.3	700.3	747.2	792.2	826.6
12.5°	563.6	565.4	566.9	576.4	596.3	598.9	632.1	677.5	733.8	794.0	837.3
15°	567.2	567.8	561.3	563.0	579.1	582.9	615.8	662.4	725.5	798.5	853.3
17.5°	597.1	595.1	579.1	570.8	582.0	583.8	612.6	656.4	721.7	806.8	869.9
20°	644.3	641.3	613.7	595.4	601.9	603.4	623.2	660.9	725.5	820.4	895.7
22.5°	703.0	701.8	660.0	637.8	637.5	637.5	647.8	676.9	737.1	839.1	922.7
25°	785.1	778.9	724.3	695.6	687.6	687.0	685.8	703.3	751.9	859.0	954.7
27.5°	869.3	858.7	810.0	765.9	748.7	746.6	738.9	740.6	770.9	881.5	991.2
30°	944.9	938.1	892.5	843.5	823.1	818.3	797.0	787.2	802.6	922.1	1049.3
32.5°	1002.8	998.6	963.0	918.5	888.3	887.4	856.3	848.3	852.1	971.3	1115.7
35°	1049.6	1051.1	1033.0	994.4	959.8	954.7	934.0	923.9	912.6	1042.5	1199.3
37.5°	1113.6	1116.9	1115.7	1082.5	1040.1	1041.3	1036.6	1019.9	990.0	1121.9	1292.1
40°	1184.2	1186.6	1186.3	1173.5	1151.3	1152.5	1150.7	1131.7	1087.0	1223.0	1395.3
42.5°	1281.8	1270.5	1241.1	1253.9	1266.9	1272.6	1284.7	1266.6	1205.3	1331.0	1492.3
45°	1390.9	1369.5	1303.1	1309.0	1357.4	1368.0	1435.0	1410.1	1333.6	1454.9	1606.4
47.5°	1459.7	1438.6	1382.6	1381.4	1445.4	1455.8	1574.4	1565.2	1450.5	1588.6	1745.8
50°	1521.0	1518.1	1454.9	1470.0	1532.6	1548.0	1726.2	1717.6	1567.0	1746.4	1897.6
52.5°	1612.1	1588.0	1537.6	1568.8	1651.5	1671.6	1876.8	1851.6	1674.0	1885.7	2044.9
55°	1653.0	1647.3	1644.4	1671.4	1784.9	1799.4	2023.3	1965.5	1765.3	2003.7	2157.0
57.5°	1762.4	1752.0	1781.4	1799.7	1942.1	1964.3	2176.3	2084.4	1845.4	2097.4	2211.6
60°	1904.1	1898.5	1925.4	1958.7	2117.6	2151.4	2350.6	2185.8	1909.7	2144.6	2181.6
62.5°	2115.8	2115.2	2110.2	2181.3	2366.3	2397.5	2550.8	2284.5	1919.8	2109.3	2026.9
65°	2419.4	2408.7	2364.9	2442.5	2675.9	2712.4	2759.2	2339.7	1859.0	1928.1	1706.6
67.5°	2737.0	2736.4	2700.8	2801.6	3120.3	3158.0	3019.8	2327.5	1690.3	1561.9	1212.1
70°	3000.2	2987.5	3032.9	3301.5	3688.1	3731.7	3247.8	2184.3	1346.4	1031.5	720.2
72.5°	3063.4	3064.0	3158.3	3686.9	4233.4	4240.2	3330.0	1770.4	901.1	569.0	360.2
74°	2868.9	2873.9	3020.1	3706.2	4335.1	4304.2	3120.0	1391.5	609.3	371.5	259.7
75°	2618.7	2586.9	2798.3	3577.8	4229.5	4196.3	2874.2	1116.6	464.9	296.8	227.4
77.5°	1400.1	1432.4	1758.5	2670.0	3436.1	3397.9	1948.9	535.5	251.1	206.7	163.7
80°	498.4	549.7	772.7	1397.1	2203.0	2214.8	930.1	245.5	176.7	152.4	115.6
82.5°	203.4	209.0	331.8	620.0	1118.7	1129.4	379.8	145.9	126.3	105.0	69.1
85°	79.5	81.8	146.8	278.7	477.4	508.5	131.3	77.1	77.7	60.2	35.3
87.5°	26.7	30.2	60.2	92.8	162.2	158.9	38.2	22.8	27.9	26.1	11.0
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°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	819.8	825.4	829.3	833.5	837.3	838.5	837.6	840.3	840.6	840.9	841.2
5°	824.6	832.3	839.7	843.8	845.6	844.1	839.1	836.4	834.0	832.3	832.9
7.5°	831.1	842.1	848.9	850.6	845.9	839.1	826.6	816.8	810.6	806.5	806.2
10°	841.2	851.8	857.5	852.4	839.4	822.8	803.2	784.8	770.9	766.7	766.4
12.5°	853.9	866.1	865.8	850.9	828.1	798.5	766.7	745.4	726.4	716.9	720.8
15°	870.5	879.7	871.1	844.4	808.2	767.6	728.5	699.4	678.1	668.0	668.6
17.5°	889.8	897.8	875.0	832.9	780.4	728.2	682.8	655.3	638.4	630.9	630.4
20°	913.8	916.2	875.0	812.7	744.5	682.2	639.0	619.7	610.2	606.3	607.5
22.5°	939.6	934.9	870.2	784.2	697.4	634.2	605.1	596.6	591.8	591.2	591.8
25°	968.7	955.3	860.4	745.7	648.1	592.7	575.8	577.3	578.2	578.2	580.2
27.5°	1004.2	977.5	844.1	697.1	590.6	554.2	549.4	559.8	564.5	565.4	566.9
30°	1051.1	1001.9	817.1	636.3	541.7	519.5	527.8	541.7	547.0	550.3	549.7
32.5°	1106.8	1028.5	780.7	575.5	502.3	495.1	505.2	519.5	525.4	527.2	524.8
35°	1172.3	1058.8	732.6	518.6	467.9	472.0	483.9	488.3	493.7	493.7	494.9
37.5°	1242.9	1083.1	673.9	466.4	441.2	456.3	464.9	460.8	458.4	455.4	456.9
40°	1314.7	1101.2	597.7	414.8	414.5	440.0	442.4	430.5	421.0	418.1	416.6
42.5°	1377.2	1112.5	528.9	374.8	389.3	424.0	425.8	406.8	391.7	382.8	379.8
45°	1451.1	1125.5	461.6	341.6	365.9	411.2	415.7	390.2	368.0	349.3	344.5
47.5°	1552.2	1155.2	408.6	315.8	349.0	403.2	409.5	376.6	347.2	322.9	319.0
50°	1666.3	1195.8	367.4	298.3	335.9	396.1	403.8	362.6	327.9	300.9	298.0
52.5°	1771.0	1217.7	331.8	282.6	323.2	383.1	396.4	352.5	308.9	279.0	276.3
55°	1828.2	1182.1	296.8	267.1	305.7	366.2	386.0	338.6	290.6	267.4	263.6
57.5°	1835.9	1108.6	265.1	250.5	287.3	345.4	366.8	321.7	278.7	259.4	256.2
60°	1776.3	998.9	240.5	236.9	268.6	322.0	345.1	306.9	266.6	250.5	247.3
62.5°	1628.1	879.7	223.3	224.4	249.7	297.4	329.1	292.6	255.0	240.8	237.8
65°	1373.1	726.1	206.7	211.7	232.7	278.1	314.6	280.8	243.4	233.3	230.7
67.5°	953.8	524.2	193.0	198.4	216.7	258.5	297.7	268.0	230.4	225.0	220.9
70°	528.1	322.6	177.0	183.2	200.1	236.6	278.7	248.8	211.4	209.0	203.1
72.5°	277.5	205.5	158.9	165.7	177.6	208.4	249.7	227.7	192.7	182.6	174.9
74°	216.7	168.4	146.8	153.9	161.9	191.8	232.5	212.6	179.4	167.5	161.6
75°	188.9	150.0	136.4	145.6	152.7	180.6	219.1	201.9	172.0	160.7	155.4
77.5°	133.4	112.4	111.5	122.5	126.3	158.3	197.5	183.8	153.3	141.4	136.4
80°	93.7	84.2	88.4	95.2	100.5	139.9	183.2	158.9	125.7	111.8	110.0
82.5°	61.1	55.1	63.2	69.4	71.2	103.2	148.0	120.7	91.6	74.4	69.1
85°	28.2	27.6	36.2	35.3	35.0	50.4	87.8	70.6	52.8	39.4	37.1
87.5°	7.1	6.8	8.9	7.4	8.9	7.7	8.0	2.1	0.3	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)