

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: P450935

Luminaire Tested: **GALN-SA1D-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450935
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-SA1D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7265 lumens
Efficiency: N/A
Efficacy: 111.8 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

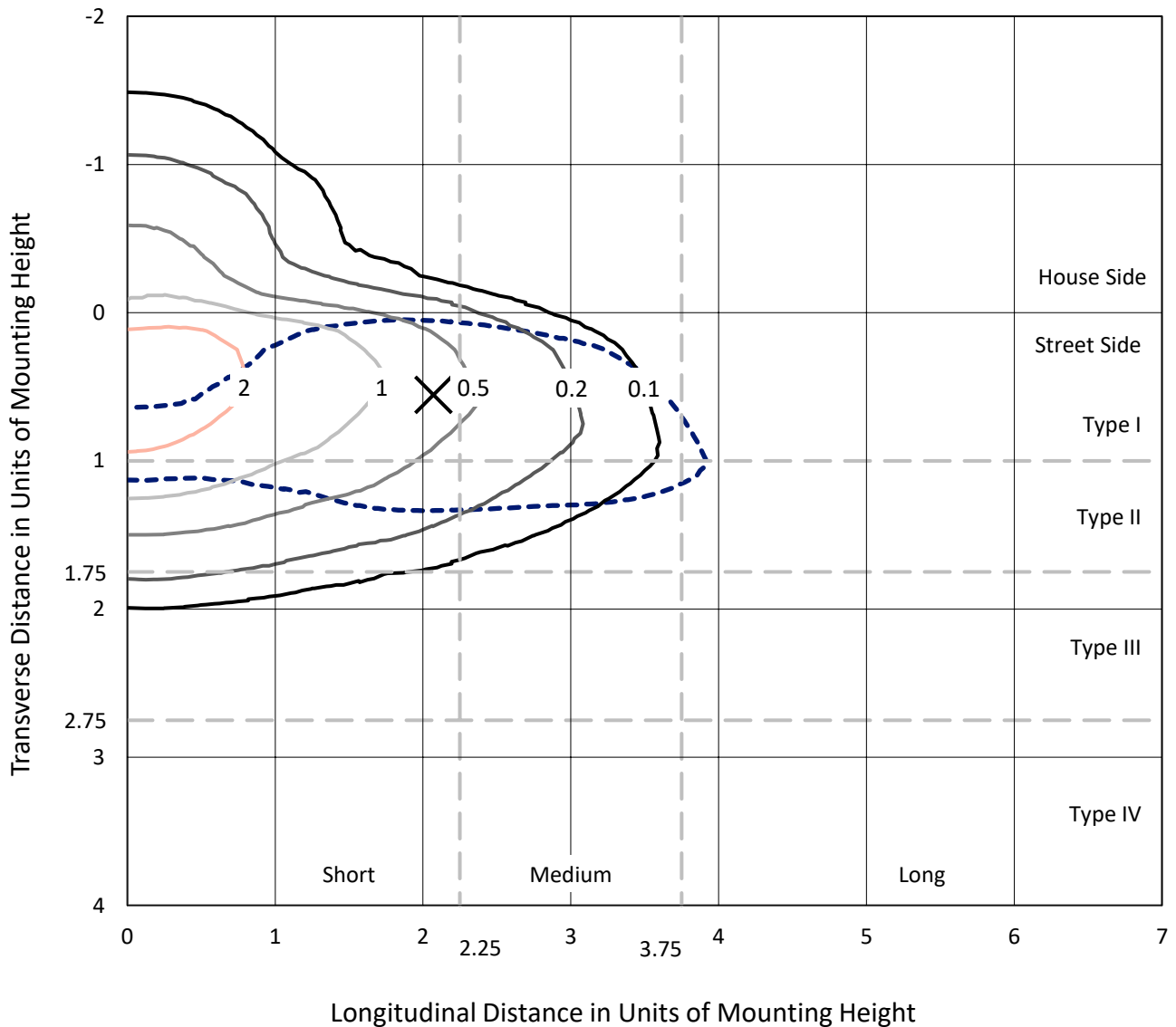
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

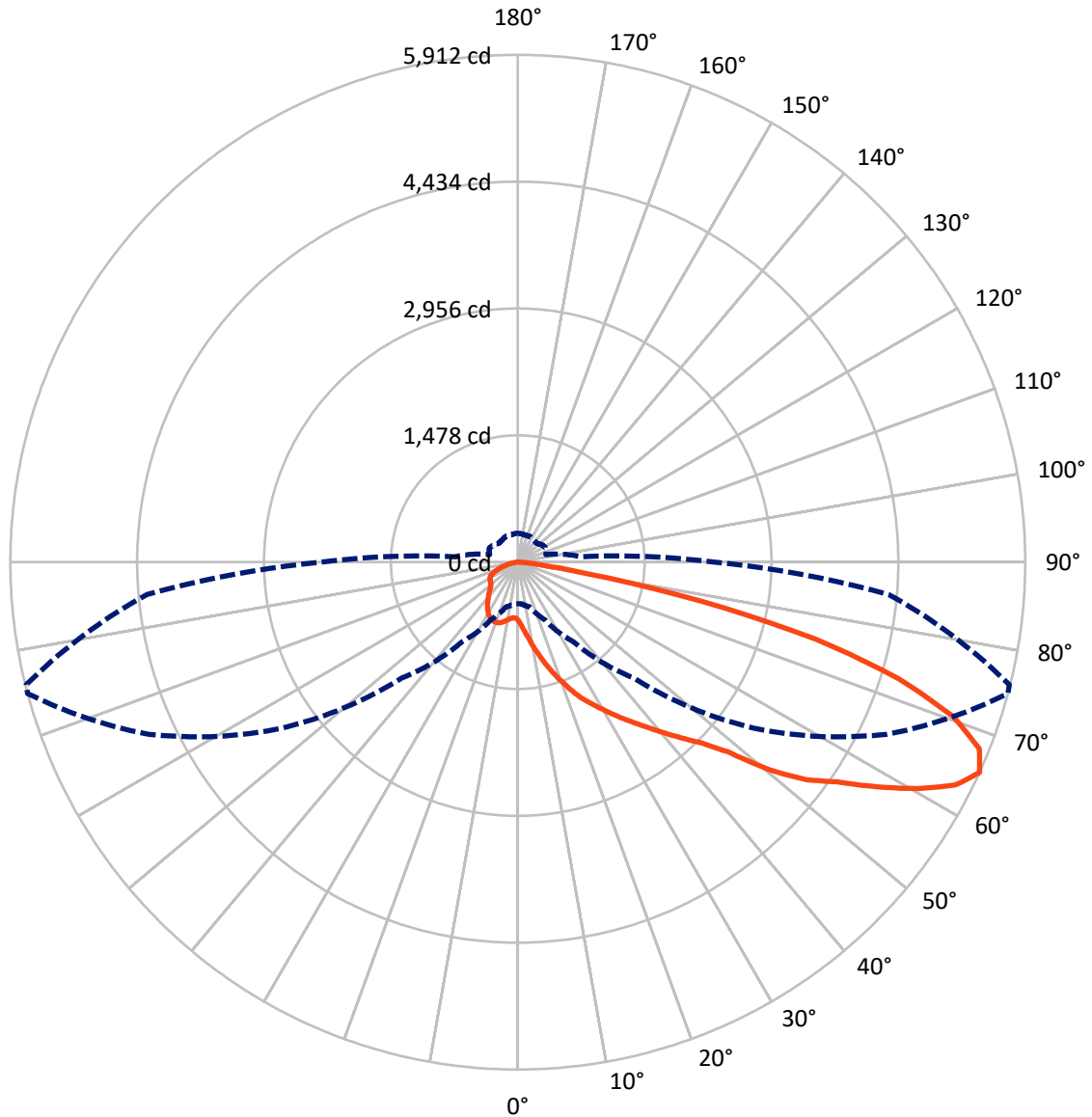
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1221.3	0.0	1221.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6043.7	0.0	6043.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	7265.0	0.0	7265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.1
10°-20°	321.2	4.4
20°-30°	620.5	8.5
30°-40°	1007.9	13.9
40°-50°	1386.4	19.1
50°-60°	1636.9	22.5
60°-70°	1434.2	19.7
70°-80°	684.7	9.4
80°-90°	91.1	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°	7265.0	100.0
0°-180°	7265.0	100.0

Coefficient of Utilization



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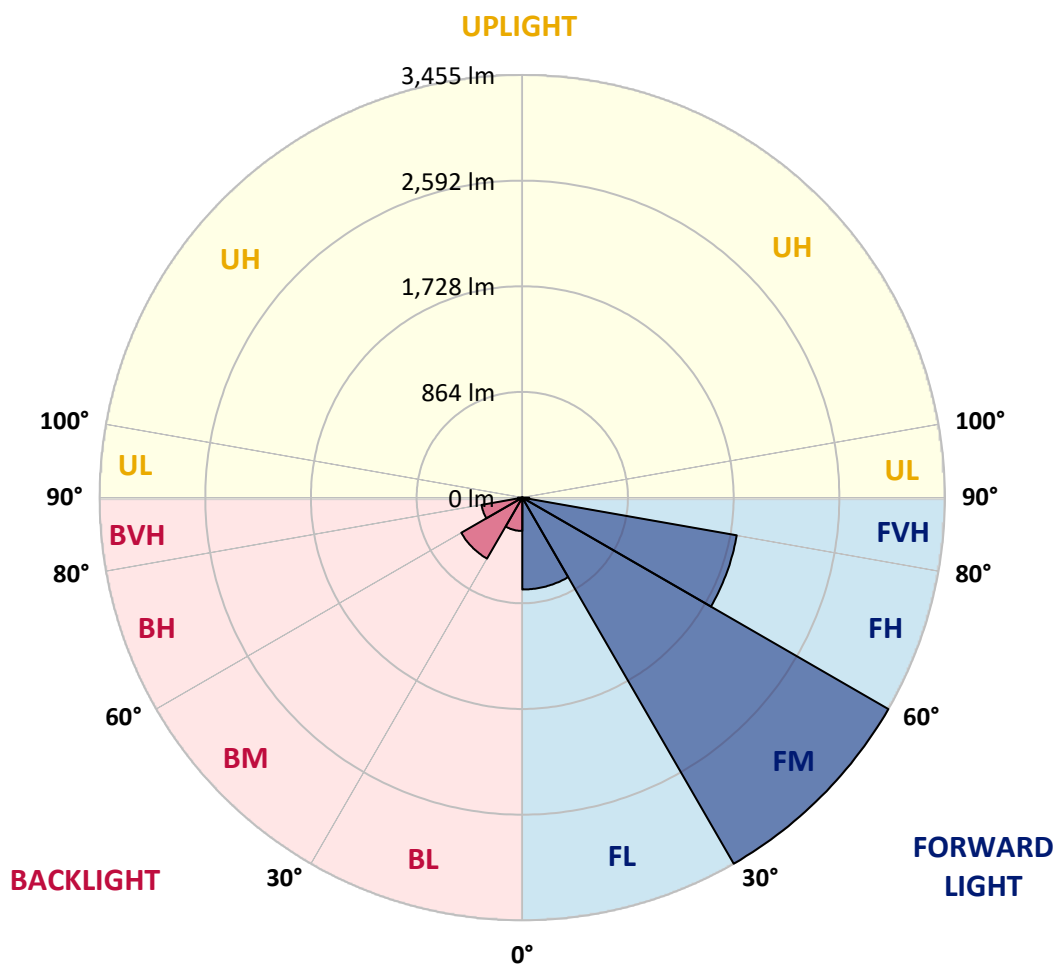
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.1	10.3			
FM (30°-60°)	3455.4	47.6			
FH (60°-80°)	1780.3	24.5			G1/1800
FVH (80°-90°)	56.9	0.8			G1/100
BL (0°-30°)	272.7	3.8	B1/500		
BM (30°-60°)	575.9	7.9	B1/1000		
BH (60°-80°)	338.7	4.7	B1/500		G1/500
BVH (80°-90°)	34.2	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°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	896.9	891.0	884.6	867.3	848.8	827.9	798.0	769.2	731.0	729.8	701.4
5°	1145.5	1141.6	1113.6	1097.4	1054.5	997.3	948.9	873.6	803.9	795.6	740.4
7.5°	1374.1	1358.7	1348.1	1318.9	1276.3	1203.0	1109.3	1007.6	891.0	879.9	788.5
10°	1546.3	1544.7	1539.2	1513.9	1482.0	1409.1	1305.1	1159.3	1001.3	979.6	846.8
12.5°	1675.1	1676.3	1675.5	1675.1	1652.3	1590.4	1477.7	1324.0	1112.8	1097.4	914.2
15°	1759.8	1771.7	1776.4	1796.1	1798.1	1756.7	1659.7	1483.2	1238.5	1215.6	986.7
17.5°	1815.8	1821.7	1843.8	1877.3	1904.5	1897.0	1810.7	1630.6	1367.0	1328.7	1062.0
20°	1869.4	1879.6	1896.6	1942.3	1990.4	2012.4	1951.7	1781.5	1494.2	1469.8	1145.1
22.5°	1980.9	1995.5	2001.4	2024.6	2065.6	2104.6	2077.0	1926.1	1633.7	1600.6	1233.4
25°	2169.6	2185.0	2168.5	2162.9	2176.3	2195.7	2189.7	2062.5	1765.4	1718.1	1316.9
27.5°	2415.5	2417.5	2385.2	2354.5	2321.4	2311.5	2293.4	2183.4	1879.6	1840.2	1400.9
30°	2679.6	2670.1	2616.5	2560.9	2505.0	2449.8	2397.8	2300.1	2006.9	1961.6	1483.2
32.5°	2924.7	2919.5	2860.0	2773.7	2679.2	2627.1	2521.9	2417.9	2143.2	2099.5	1567.9
35°	3108.3	3115.8	3050.4	2956.2	2852.9	2806.8	2674.0	2541.6	2284.3	2236.6	1660.1
37.5°	3238.7	3234.8	3176.8	3095.3	3004.6	2964.4	2851.8	2676.8	2436.0	2390.3	1761.0
40°	3285.2	3282.8	3239.9	3180.4	3122.9	3108.7	3037.7	2822.6	2609.8	2556.2	1882.4
42.5°	3255.7	3260.8	3232.4	3216.2	3205.6	3215.9	3222.6	3013.7	2799.3	2750.1	2014.0
45°	3165.0	3162.3	3158.3	3184.7	3244.6	3312.0	3405.4	3194.2	3005.4	2966.0	2190.5
47.5°	3003.1	3022.8	3032.6	3105.5	3236.3	3395.9	3615.8	3436.1	3304.5	3270.2	2459.7
50°	2776.5	2792.2	2850.6	2980.2	3175.3	3427.5	3821.5	3831.8	3803.4	3739.2	2752.1
52.5°	2422.6	2447.1	2567.2	2804.9	3050.0	3414.5	3946.0	4171.0	4208.5	4160.4	3040.1
55°	2026.6	2060.9	2187.8	2499.5	2877.4	3343.5	4031.9	4367.7	4517.0	4472.5	3317.5
57.5°	1638.9	1675.1	1805.5	2107.4	2576.3	3186.7	4088.3	4586.8	4937.1	4879.1	3662.7
60°	1228.3	1266.1	1378.0	1688.9	2147.6	2880.1	4050.1	4776.7	5356.7	5331.9	4008.3
62.5°	792.4	834.2	931.5	1188.9	1650.7	2461.2	3845.5	4881.5	5720.1	5690.1	4260.5
65°	482.7	487.4	541.0	738.1	1129.7	1905.6	3377.8	4742.4	5911.6	5902.5	4337.3
67.5°	312.1	319.6	344.0	442.1	677.4	1323.6	2700.8	4283.3	5799.7	5796.5	4178.5
70°	263.6	266.0	277.0	298.3	393.7	802.7	1896.6	3551.6	5374.5	5374.5	3796.7
72.5°	235.6	238.8	242.7	249.4	281.0	454.7	1131.7	2764.7	4640.4	4671.1	3231.6
75°	214.0	213.2	215.5	216.7	239.6	297.1	585.2	2044.7	3589.8	3528.3	2340.3
77.5°	183.2	184.4	183.2	188.4	211.6	226.2	297.1	1372.1	2175.6	2096.0	1174.7
80°	150.5	152.5	154.5	157.6	180.9	171.8	178.5	625.4	804.7	787.7	362.9
82.5°	113.1	115.9	119.0	126.5	142.3	113.5	112.7	267.2	290.4	266.0	133.6
85°	45.7	54.0	81.6	89.1	89.4	62.3	69.4	111.5	118.6	115.9	52.4
87.5°	10.6	12.6	26.4	39.8	36.6	23.2	25.6	36.3	41.4	38.2	17.7
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°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	688.4	674.6	651.0	632.8	619.8	608.4	601.3	597.0	595.4	595.0	595.4
5°	711.7	687.2	649.8	626.1	613.1	605.7	601.3	600.9	601.3	601.7	600.5
7.5°	743.6	708.5	659.6	637.6	627.7	622.2	620.2	619.4	619.8	619.4	619.4
10°	786.1	738.1	679.0	656.1	647.8	641.5	638.4	636.4	634.8	633.2	632.5
12.5°	833.0	770.8	699.8	677.8	665.9	656.1	649.0	643.9	640.3	636.8	636.0
15°	885.4	805.4	723.1	692.3	675.4	660.8	648.6	640.3	634.0	628.9	628.5
17.5°	935.5	838.1	738.8	699.0	674.2	653.7	637.6	626.1	618.3	611.6	610.8
20°	989.1	869.3	745.9	694.7	662.4	637.6	616.3	602.5	593.4	586.0	584.8
22.5°	1043.1	895.7	745.2	680.9	641.9	612.8	590.3	575.7	565.1	557.6	554.8
25°	1094.7	917.0	735.3	658.9	613.5	583.2	560.3	546.9	537.5	528.4	528.4
27.5°	1141.2	929.6	716.8	632.1	584.4	552.5	534.3	522.1	513.4	507.5	504.0
30°	1186.9	935.5	691.6	598.2	553.6	526.5	511.9	504.8	496.9	490.2	489.4
32.5°	1227.9	934.3	660.0	565.1	524.5	505.2	499.3	493.7	485.5	476.0	473.6
35°	1267.7	926.4	622.6	528.8	500.1	492.6	494.1	486.3	471.3	459.5	457.5
37.5°	1311.0	912.2	581.6	499.3	479.6	486.7	490.6	473.3	448.8	430.3	426.0
40°	1361.1	896.1	539.1	469.7	463.4	481.1	481.1	449.2	415.7	404.3	401.1
42.5°	1419.8	882.7	503.6	444.9	450.0	467.7	465.8	417.3	403.5	397.6	396.0
45°	1512.8	877.9	467.0	423.2	439.0	452.0	435.8	406.3	398.4	393.7	392.1
47.5°	1659.7	883.5	434.6	407.1	426.4	436.2	402.3	398.8	393.3	386.6	385.8
50°	1796.1	878.3	411.8	398.0	415.3	417.3	388.5	389.7	386.6	379.1	377.5
52.5°	1907.6	862.2	397.2	393.3	405.9	384.2	375.5	379.9	378.7	369.2	367.7
55°	2030.2	852.3	390.1	393.3	399.6	355.4	363.3	369.6	368.0	361.3	361.0
57.5°	2178.7	854.3	385.0	394.4	393.3	340.9	351.1	358.6	358.2	356.2	356.2
60°	2330.8	855.1	377.1	394.1	385.8	329.4	338.5	349.1	349.9	351.1	351.1
62.5°	2381.3	820.8	361.7	387.0	369.2	318.4	326.7	341.2	340.5	343.6	344.0
65°	2287.1	725.8	338.9	370.8	347.9	310.5	317.6	331.0	326.7	334.9	336.5
67.5°	2081.8	600.5	303.4	341.6	324.3	302.2	311.7	316.8	308.9	325.1	325.5
70°	1799.2	468.9	258.5	300.3	297.5	293.6	307.0	299.1	288.1	307.8	303.8
72.5°	1504.5	358.2	206.5	245.5	261.7	280.6	298.7	276.2	260.9	266.8	259.7
75°	1130.1	264.8	165.9	192.3	217.9	262.0	291.2	248.6	225.0	219.5	217.9
77.5°	576.1	173.0	124.1	143.8	163.5	236.8	281.0	216.3	186.4	177.7	173.8
80°	205.7	107.6	87.5	99.3	110.3	203.7	245.5	178.9	144.6	143.0	144.6
82.5°	95.4	69.4	58.7	65.0	65.4	135.9	187.2	133.6	109.9	167.1	141.1
85°	41.0	34.7	33.1	32.3	29.9	60.7	105.2	71.7	111.9	50.0	46.1
87.5°	12.2	13.8	12.2	9.1	6.7	6.7	10.6	3.9	2.8	2.0	2.0
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)