

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: P450964

Luminaire Tested: **GALN-SA1D-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450964
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7977 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

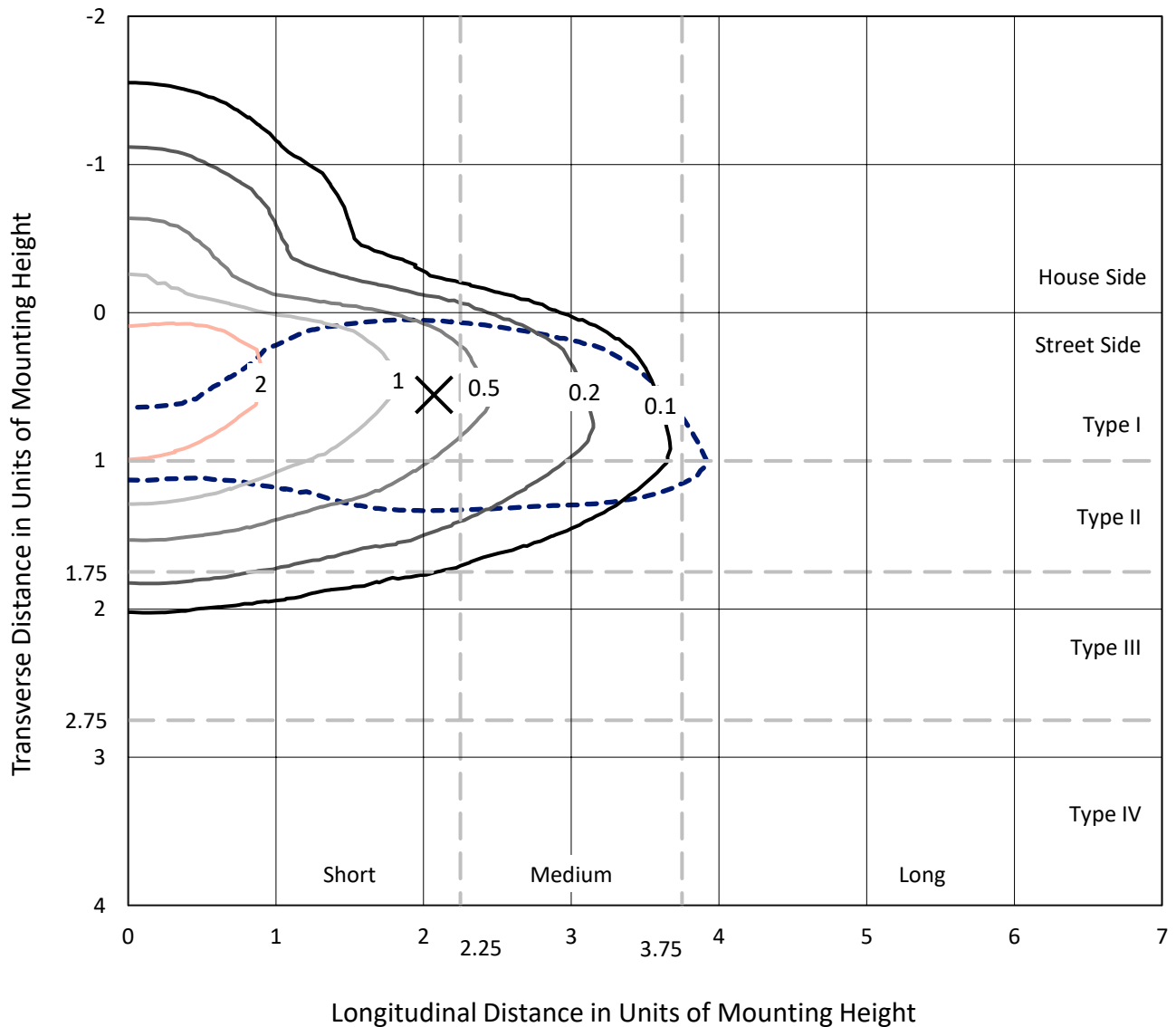
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

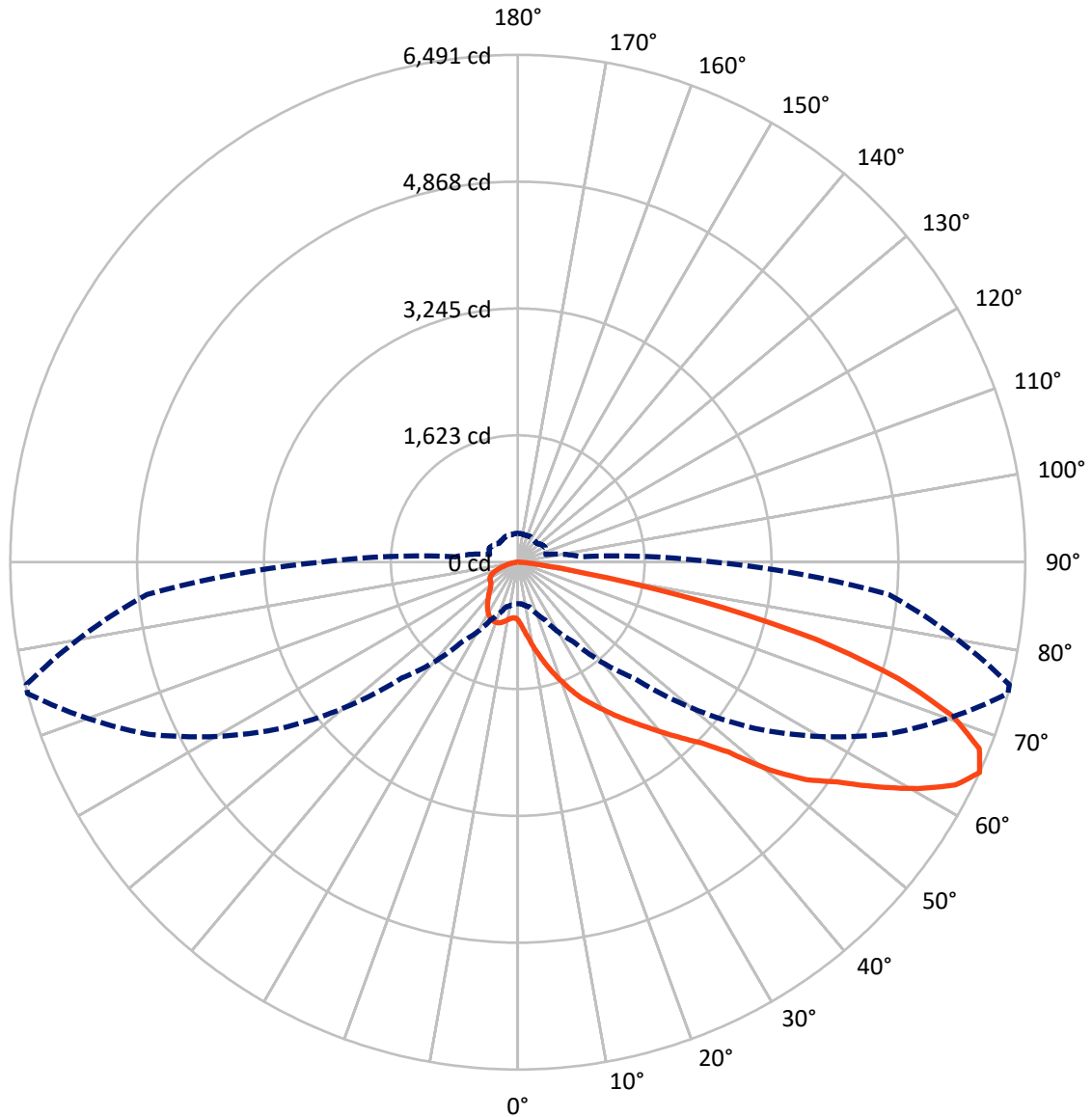
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1341.0	0.0	1341.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6636.0	0.0	6636.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	7977.0	0.0	7977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.1
10°-20°	352.7	4.4
20°-30°	681.3	8.5
30°-40°	1106.7	13.9
40°-50°	1522.3	19.1
50°-60°	1797.3	22.5
60°-70°	1574.8	19.7
70°-80°	751.8	9.4
80°-90°	100.0	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°	7977.0	100.0
0°-180°	7977.0	100.0

Coefficient of Utilization



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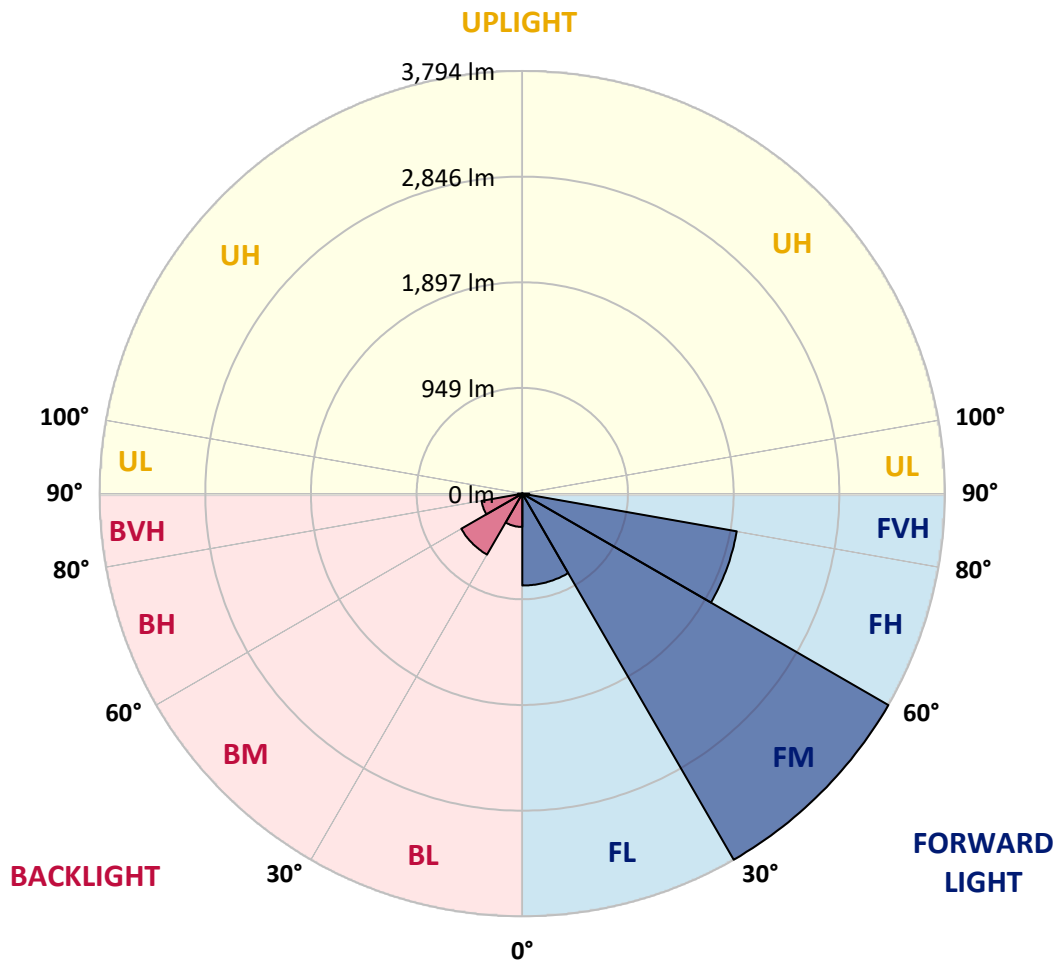
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.7	10.3			
FM (30°-60°)	3794.0	47.6			
FH (60°-80°)	1954.7	24.5			G2/5000
FVH (80°-90°)	62.5	0.8			G1/100
BL (0°-30°)	299.4	3.8	B1/500		
BM (30°-60°)	632.3	7.9	B1/1000		
BH (60°-80°)	371.8	4.7	B1/500		G1/500
BVH (80°-90°)	37.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2
2.5°	984.8	978.3	971.3	952.3	932.0	909.0	876.2	844.6	802.6	801.3	770.2
5°	1257.8	1253.4	1222.7	1205.0	1157.8	1095.1	1041.9	959.2	882.6	873.6	813.0
7.5°	1508.7	1491.8	1480.2	1448.1	1401.4	1320.9	1218.0	1106.3	978.3	966.2	865.8
10°	1697.8	1696.1	1690.0	1662.3	1627.3	1547.2	1433.0	1272.9	1099.4	1075.6	929.8
12.5°	1839.3	1840.6	1839.7	1839.3	1814.2	1746.3	1622.5	1453.8	1221.9	1205.0	1003.8
15°	1932.3	1945.3	1950.5	1972.1	1974.3	1928.8	1822.4	1628.6	1359.9	1334.8	1083.4
17.5°	1993.7	2000.2	2024.5	2061.2	2091.1	2082.9	1988.1	1790.4	1500.9	1459.0	1166.0
20°	2052.6	2063.8	2082.4	2132.6	2185.4	2209.6	2143.0	1956.1	1640.7	1613.9	1257.3
22.5°	2175.0	2191.0	2197.5	2223.1	2268.1	2310.9	2280.6	2114.9	1793.9	1757.5	1354.3
25°	2382.3	2399.2	2381.0	2374.9	2389.6	2410.8	2404.3	2264.6	1938.4	1886.4	1446.0
27.5°	2652.3	2654.4	2619.0	2585.2	2548.9	2538.0	2518.1	2397.4	2063.8	2020.6	1538.1
30°	2942.2	2931.8	2872.9	2811.9	2750.5	2689.9	2632.8	2525.5	2203.6	2153.8	1628.6
32.5°	3211.3	3205.7	3140.3	3045.6	2941.7	2884.6	2769.1	2654.9	2353.3	2305.3	1721.6
35°	3412.9	3421.1	3349.3	3245.9	3132.5	3081.9	2936.1	2790.7	2508.2	2455.8	1822.8
37.5°	3556.1	3551.8	3488.2	3398.6	3299.1	3255.0	3131.2	2939.1	2674.8	2624.6	1933.6
40°	3607.2	3604.6	3557.4	3492.1	3428.9	3413.3	3335.5	3099.2	2865.6	2806.7	2066.9
42.5°	3574.7	3580.3	3549.2	3531.5	3519.8	3531.0	3538.4	3309.1	3073.7	3019.6	2211.4
45°	3475.2	3472.2	3467.9	3496.8	3562.6	3636.6	3739.1	3507.2	3300.0	3256.7	2405.2
47.5°	3297.4	3319.0	3329.8	3409.9	3553.5	3728.8	3970.2	3772.9	3628.4	3590.7	2700.7
50°	3048.6	3065.9	3129.9	3272.3	3486.5	3763.4	4196.0	4207.3	4176.1	4105.6	3021.8
52.5°	2660.1	2686.9	2818.8	3079.7	3348.9	3749.1	4332.8	4579.8	4620.9	4568.1	3338.1
55°	2225.2	2262.9	2402.2	2744.4	3159.4	3671.2	4427.1	4795.7	4959.7	4910.8	3642.7
57.5°	1799.5	1839.3	1982.5	2313.9	2828.8	3499.0	4489.0	5036.3	5420.9	5357.3	4021.7
60°	1348.6	1390.2	1513.0	1854.4	2358.1	3162.4	4447.0	5244.8	5881.7	5854.5	4401.1
62.5°	870.1	916.0	1022.8	1305.4	1812.5	2702.5	4222.4	5359.9	6280.6	6247.8	4678.0
65°	530.0	535.2	594.1	810.4	1240.5	2092.4	3708.8	5207.2	6490.9	6481.0	4762.4
67.5°	342.7	350.9	377.7	485.5	743.8	1453.3	2965.5	4703.1	6368.0	6364.6	4588.0
70°	289.5	292.1	304.2	327.5	432.2	881.3	2082.4	3899.7	5901.2	5901.2	4168.8
72.5°	258.7	262.2	266.5	273.9	308.5	499.3	1242.6	3035.6	5095.1	5128.9	3548.3
75°	234.9	234.1	236.7	238.0	263.1	326.2	642.5	2245.1	3941.6	3874.1	2569.6
77.5°	201.2	202.5	201.2	206.8	232.3	248.4	326.2	1506.6	2388.8	2301.4	1289.8
80°	165.3	167.4	169.6	173.1	198.6	188.6	196.0	686.6	883.5	864.9	398.5
82.5°	124.2	127.2	130.7	138.9	156.2	124.6	123.7	293.4	318.9	292.1	146.7
85°	50.2	59.3	89.6	97.8	98.2	68.4	76.1	122.4	130.2	127.2	57.5
87.5°	11.7	13.8	29.0	43.7	40.2	25.5	28.1	39.8	45.4	42.0	19.5
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°	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2
2.5°	755.9	740.7	714.8	694.9	680.6	668.0	660.3	655.5	653.8	653.3	653.8
5°	781.4	754.6	713.5	687.5	673.2	665.0	660.3	659.8	660.3	660.7	659.4
7.5°	816.4	777.9	724.3	700.1	689.2	683.2	681.0	680.2	680.6	680.2	680.2
10°	863.2	810.4	745.5	720.4	711.3	704.4	700.9	698.8	697.0	695.3	694.4
12.5°	914.7	846.3	768.4	744.2	731.2	720.4	712.6	707.0	703.1	699.2	698.3
15°	972.2	884.4	793.9	760.2	741.6	725.6	712.2	703.1	696.2	690.5	690.1
17.5°	1027.2	920.3	811.3	767.6	740.3	717.8	700.1	687.5	678.9	671.5	670.6
20°	1086.0	954.5	819.0	762.8	727.3	700.1	676.7	661.6	651.6	643.4	642.1
22.5°	1145.3	983.5	818.2	747.7	704.8	672.8	648.1	632.1	620.4	612.2	609.2
25°	1202.0	1006.8	807.4	723.4	673.7	640.4	615.3	600.5	590.2	580.2	580.2
27.5°	1253.0	1020.7	787.0	694.0	641.6	606.6	586.7	573.3	563.8	557.3	553.4
30°	1303.2	1027.2	759.3	656.8	607.9	578.0	562.0	554.3	545.6	538.2	537.4
32.5°	1348.2	1025.9	724.7	620.4	575.9	554.7	548.2	542.1	533.0	522.7	520.1
35°	1391.9	1017.2	683.6	580.6	549.1	540.8	542.6	533.9	517.5	504.5	502.3
37.5°	1439.5	1001.6	638.6	548.2	526.6	534.3	538.7	519.6	492.8	472.5	467.7
40°	1494.4	983.9	591.9	515.7	508.8	528.3	528.3	493.2	456.5	443.9	440.5
42.5°	1558.9	969.2	553.0	488.5	494.1	513.6	511.4	458.2	443.1	436.6	434.8
45°	1661.0	964.0	512.7	464.7	482.0	496.3	478.5	446.1	437.4	432.2	430.5
47.5°	1822.4	970.0	477.2	446.9	468.1	479.0	441.8	437.9	431.8	424.4	423.6
50°	1972.1	964.4	452.1	437.0	456.0	458.2	426.6	427.9	424.4	416.2	414.5
52.5°	2094.6	946.7	436.1	431.8	445.7	421.9	412.3	417.1	415.8	405.4	403.7
55°	2229.1	935.9	428.3	431.8	438.7	390.3	398.9	405.8	404.1	396.8	396.3
57.5°	2392.2	938.0	422.7	433.1	431.8	374.3	385.5	393.7	393.3	391.1	391.1
60°	2559.2	938.9	414.1	432.7	423.6	361.7	371.7	383.3	384.2	385.5	385.5
62.5°	2614.6	901.3	397.2	424.9	405.4	349.6	358.7	374.7	373.8	377.3	377.7
65°	2511.2	797.0	372.1	407.1	382.0	340.9	348.7	363.4	358.7	367.8	369.5
67.5°	2285.8	659.4	333.2	375.1	356.1	331.9	342.2	347.9	339.2	357.0	357.4
70°	1975.6	514.9	283.8	329.7	326.7	322.3	337.1	328.4	316.3	337.9	333.6
72.5°	1651.9	393.3	226.7	269.6	287.3	308.1	328.0	303.3	286.4	292.9	285.1
75°	1240.9	290.8	182.2	211.1	239.3	287.7	319.7	273.0	247.1	241.0	239.3
77.5°	632.6	189.9	136.3	157.9	179.6	260.0	308.5	237.5	204.7	195.1	190.8
80°	225.9	118.1	96.1	109.0	121.1	223.7	269.6	196.4	158.8	157.1	158.8
82.5°	104.7	76.1	64.5	71.4	71.8	149.3	205.5	146.7	120.7	183.5	154.9
85°	45.0	38.1	36.3	35.5	32.9	66.6	115.5	78.7	122.9	54.9	50.6
87.5°	13.4	15.1	13.4	10.0	7.4	7.4	11.7	4.3	3.0	2.2	2.2
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)