

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: P458620

Luminaire Tested: **GALN-SA1D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458620
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7431 lumens
Efficiency: N/A
Efficacy: 114.3 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

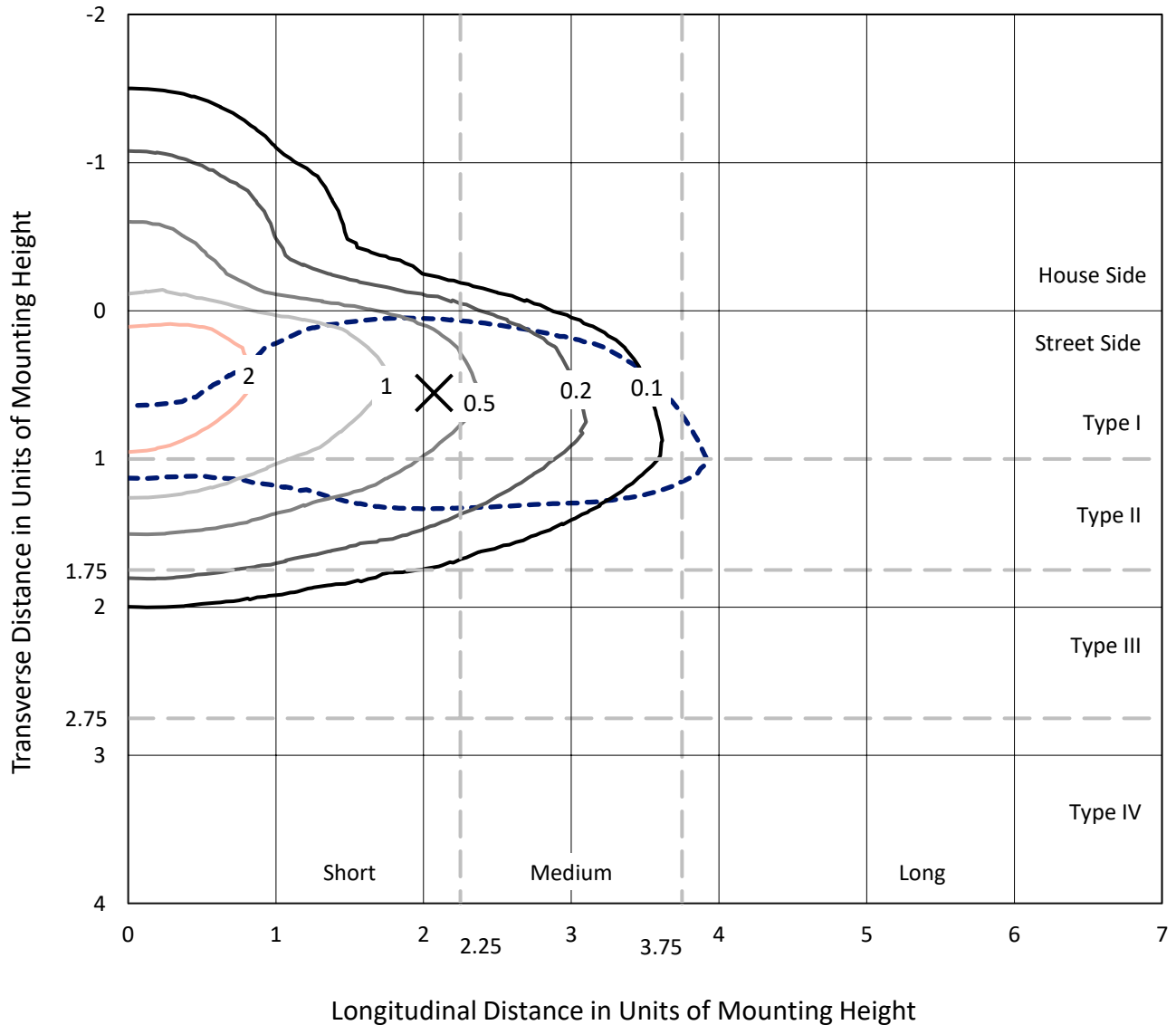
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

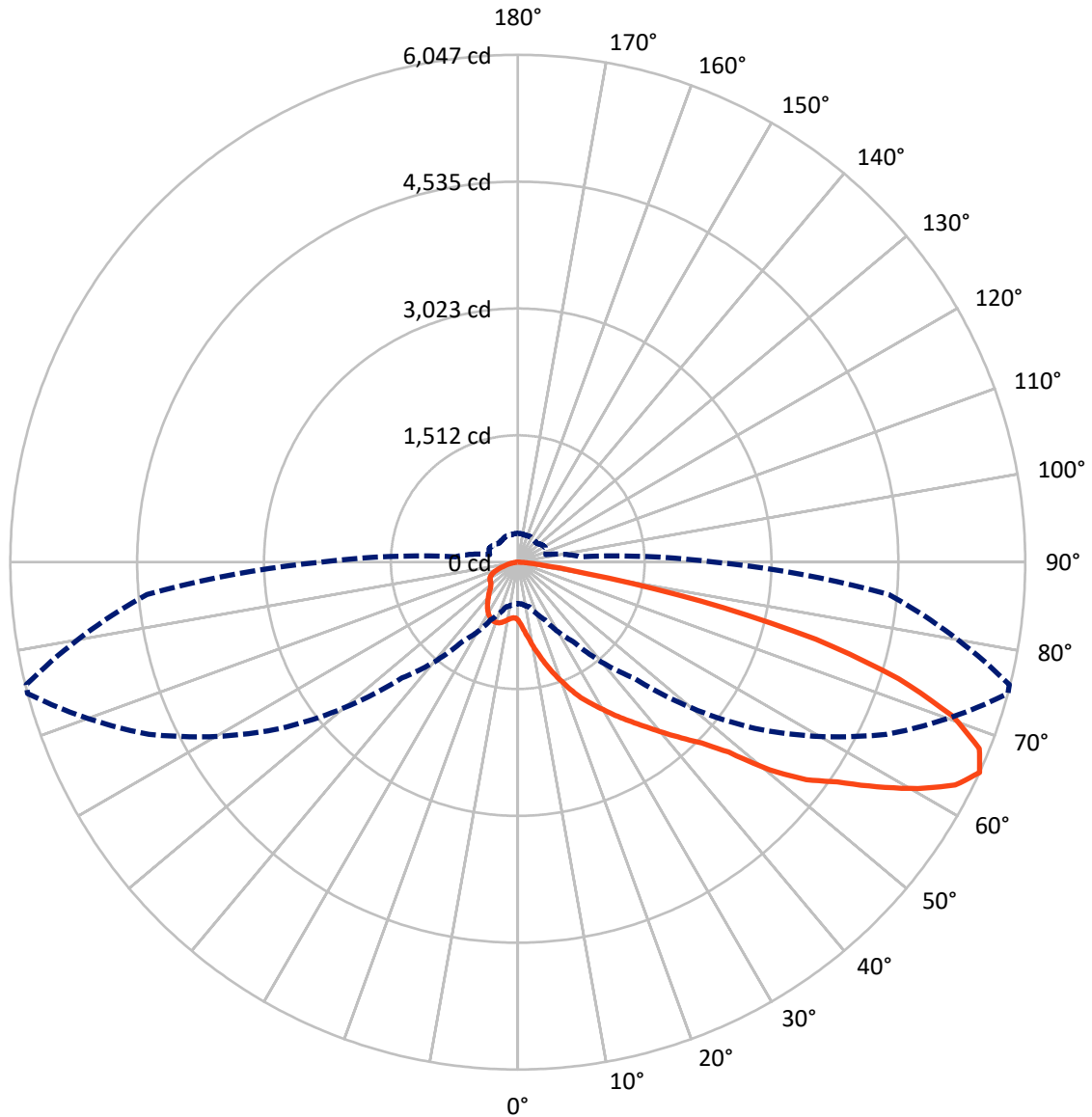
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1249.3	0.0	1249.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6181.8	0.0	6181.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	7431.0	0.0	7431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.1
10°-20°	328.6	4.4
20°-30°	634.7	8.5
30°-40°	1030.9	13.9
40°-50°	1418.1	19.1
50°-60°	1674.3	22.5
60°-70°	1467.0	19.7
70°-80°	700.3	9.4
80°-90°	93.2	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°	7431.0	100.0
0°-180°	7431.0	100.0

Coefficient of Utilization



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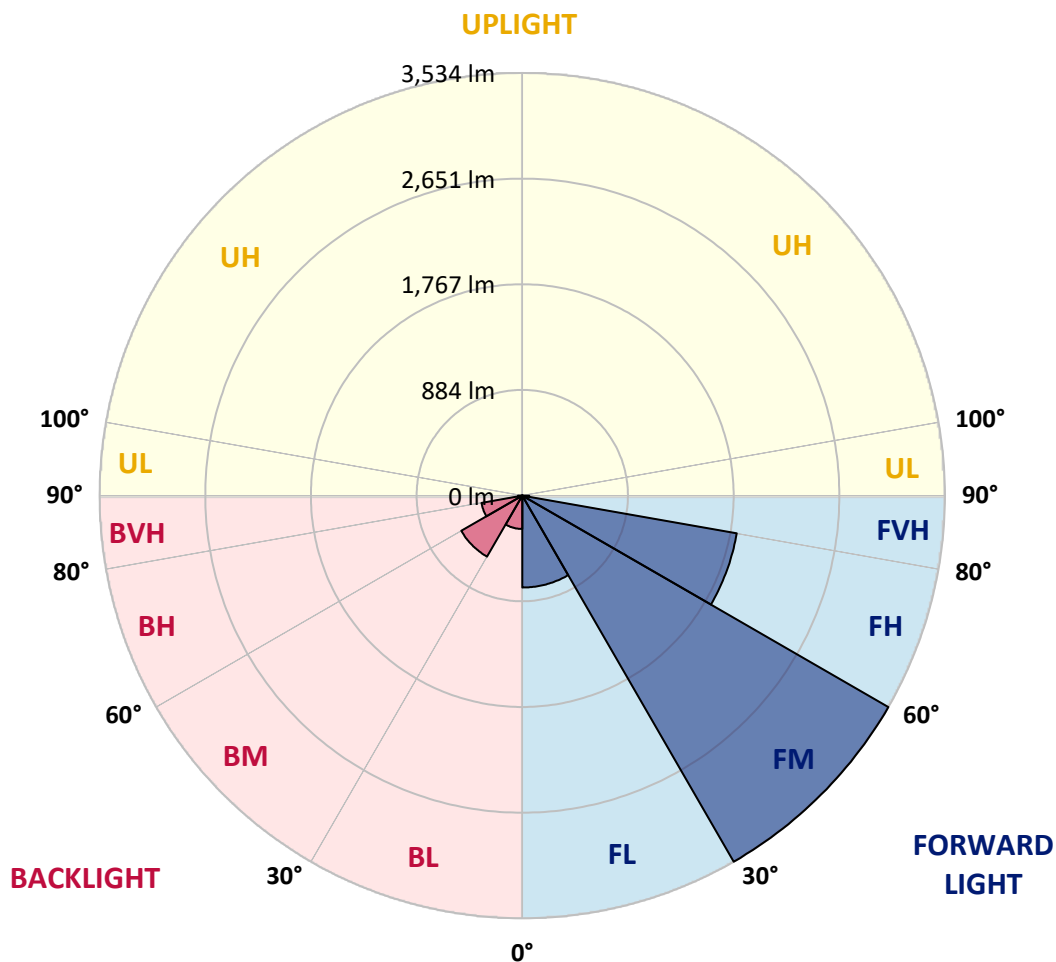
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.2	10.3			
FM	(30°-60°)	3534.3	47.6			
FH	(60°-80°)	1820.9	24.5			G2/5000
FVH	(80°-90°)	58.2	0.8			G1/100
BL	(0°-30°)	278.9	3.8	B1/500		
BM	(30°-60°)	589.0	7.9	B1/1000		
BH	(60°-80°)	346.4	4.7	B1/500		G1/500
BVH	(80°-90°)	35.0	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°	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4
2.5°	917.4	911.3	904.9	887.1	868.2	846.8	816.2	786.8	747.7	746.5	717.4
5°	1171.7	1167.7	1139.0	1122.5	1078.6	1020.1	970.6	893.6	822.2	813.8	757.3
7.5°	1405.5	1389.7	1378.9	1349.0	1305.5	1230.5	1134.6	1030.6	911.3	900.0	806.5
10°	1581.6	1580.0	1574.3	1548.5	1515.9	1441.3	1334.9	1185.8	1024.2	1002.0	866.2
12.5°	1713.4	1714.6	1713.8	1713.4	1690.0	1626.7	1511.5	1354.3	1138.2	1122.5	935.1
15°	1800.0	1812.1	1817.0	1837.1	1839.1	1796.8	1697.7	1517.1	1266.8	1243.4	1009.3
17.5°	1857.3	1863.3	1885.9	1920.2	1948.0	1940.3	1852.0	1667.8	1398.2	1359.1	1086.2
20°	1912.1	1922.6	1939.9	1986.7	2035.8	2058.4	1996.3	1822.2	1528.4	1503.4	1171.3
22.5°	2026.2	2041.1	2047.1	2070.9	2112.8	2152.7	2124.5	1970.1	1671.1	1637.2	1261.6
25°	2219.2	2234.9	2218.0	2212.4	2226.1	2245.8	2239.8	2109.6	1805.7	1757.3	1347.0
27.5°	2470.7	2472.7	2439.7	2408.3	2374.4	2364.3	2345.8	2233.3	1922.6	1882.3	1432.9
30°	2740.8	2731.1	2676.3	2619.5	2562.2	2505.8	2452.6	2352.6	2052.8	2006.4	1517.1
32.5°	2991.5	2986.2	2925.4	2837.1	2740.4	2687.2	2579.6	2473.1	2192.2	2147.5	1603.8
35°	3179.3	3187.0	3120.1	3023.7	2918.1	2871.0	2735.1	2599.7	2336.5	2287.7	1698.1
37.5°	3312.7	3308.7	3249.4	3166.0	3073.3	3032.2	2916.9	2738.0	2491.7	2444.9	1801.3
40°	3360.3	3357.9	3313.9	3253.1	3194.2	3179.7	3107.2	2887.1	2669.4	2614.6	1925.4
42.5°	3330.0	3335.3	3306.3	3289.7	3278.9	3289.3	3296.2	3082.6	2863.3	2812.9	2060.0
45°	3237.3	3234.5	3230.5	3257.5	3318.8	3387.7	3483.2	3267.2	3074.1	3033.8	2240.6
47.5°	3071.7	3091.8	3101.9	3176.5	3310.3	3473.5	3698.4	3514.6	3380.0	3345.0	2515.9
50°	2839.9	2856.0	2915.7	3048.3	3247.8	3505.8	3908.8	3919.3	3890.3	3824.6	2814.9
52.5°	2478.0	2503.0	2625.9	2868.9	3119.6	3492.5	4036.2	4266.3	4304.6	4255.5	3109.6
55°	2072.9	2108.0	2237.8	2556.6	2943.1	3419.9	4124.1	4467.5	4620.2	4574.7	3393.3
57.5°	1676.3	1713.4	1846.8	2155.5	2635.2	3259.5	4181.7	4691.6	5049.9	4990.6	3746.4
60°	1256.3	1295.0	1409.5	1727.5	2196.7	2945.9	4142.6	4885.8	5479.1	5453.7	4099.9
62.5°	810.5	853.3	952.8	1216.0	1688.4	2517.5	3933.4	4993.0	5850.8	5820.1	4357.8
65°	493.7	498.6	553.4	754.9	1155.6	1949.2	3455.0	4850.8	6046.6	6037.4	4436.4
67.5°	319.2	326.9	351.9	452.2	692.9	1353.9	2762.5	4381.2	5932.2	5928.9	4274.0
70°	269.6	272.1	283.3	305.1	402.7	821.0	1939.9	3632.7	5497.3	5497.3	3883.4
72.5°	241.0	244.3	248.3	255.1	287.4	465.1	1157.6	2827.8	4746.4	4777.8	3305.5
75°	218.9	218.1	220.5	221.7	245.1	303.9	598.5	2091.5	3671.8	3609.0	2393.7
77.5°	187.4	188.6	187.4	192.7	216.4	231.4	303.9	1403.4	2225.3	2143.9	1201.5
80°	154.0	156.0	158.0	161.2	185.0	175.7	182.6	639.6	823.0	805.7	371.2
82.5°	115.7	118.5	121.7	129.4	145.5	116.1	115.3	273.3	297.1	272.1	136.6
85°	46.8	55.2	83.4	91.1	91.5	63.7	70.9	114.1	121.3	118.5	53.6
87.5°	10.9	12.9	27.0	40.7	37.5	23.8	26.2	37.1	42.3	39.1	18.1
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°	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4
2.5°	704.1	690.0	665.8	647.3	634.0	622.3	615.1	610.6	609.0	608.6	609.0
5°	727.9	702.9	664.6	640.5	627.2	619.5	615.1	614.7	615.1	615.5	614.3
7.5°	760.6	724.7	674.7	652.1	642.1	636.4	634.4	633.6	634.0	633.6	633.6
10°	804.1	754.9	694.5	671.1	662.6	656.2	652.9	650.9	649.3	647.7	646.9
12.5°	852.1	788.4	715.8	693.3	681.2	671.1	663.8	658.6	655.0	651.3	650.5
15°	905.7	823.8	739.6	708.2	690.8	675.9	663.4	655.0	648.5	643.3	642.9
17.5°	956.9	857.3	755.7	715.0	689.6	668.7	652.1	640.5	632.4	625.5	624.7
20°	1011.7	889.1	763.0	710.6	677.5	652.1	630.4	616.3	607.0	599.3	598.1
22.5°	1066.9	916.1	762.2	696.5	656.6	626.8	603.8	588.9	578.0	570.3	567.5
25°	1119.7	937.9	752.1	673.9	627.6	596.5	573.1	559.4	549.8	540.5	540.5
27.5°	1167.2	950.8	733.2	646.5	597.7	565.1	546.5	534.0	525.2	519.1	515.5
30°	1214.0	956.9	707.4	611.8	566.3	538.5	523.6	516.3	508.3	501.4	500.6
32.5°	1255.9	955.6	675.1	578.0	536.5	516.7	510.7	505.0	496.6	486.9	484.5
35°	1296.6	947.6	636.8	540.9	511.5	503.8	505.4	497.4	482.1	470.0	467.9
37.5°	1341.0	933.1	594.9	510.7	490.5	497.8	501.8	484.1	459.1	440.1	435.7
40°	1392.2	916.5	551.4	480.4	474.0	492.1	492.1	459.5	425.2	413.5	410.3
42.5°	1452.2	902.8	515.1	455.0	460.3	478.4	476.4	426.8	412.7	406.7	405.1
45°	1547.3	898.0	477.6	432.9	449.0	462.3	445.8	415.6	407.5	402.7	401.0
47.5°	1697.7	903.7	444.6	416.4	436.1	446.2	411.5	407.9	402.2	395.4	394.6
50°	1837.1	898.4	421.2	407.1	424.8	426.8	397.4	398.6	395.4	387.7	386.1
52.5°	1951.2	881.9	406.3	402.2	415.1	393.0	384.1	388.5	387.3	377.7	376.1
55°	2076.5	871.8	399.0	402.2	408.7	363.6	371.6	378.1	376.5	369.6	369.2
57.5°	2228.5	873.8	393.8	403.5	402.2	348.6	359.1	366.8	366.4	364.4	364.4
60°	2384.1	874.6	385.7	403.1	394.6	337.0	346.2	357.1	357.9	359.1	359.1
62.5°	2435.7	839.6	370.0	395.8	377.7	325.7	334.1	349.0	348.2	351.5	351.9
65°	2339.3	742.4	346.6	379.3	355.9	317.6	324.9	338.6	334.1	342.6	344.2
67.5°	2129.3	614.3	310.4	349.4	331.7	309.1	318.8	324.1	316.0	332.5	332.9
70°	1840.4	479.6	264.4	307.1	304.3	300.3	314.0	305.9	294.6	314.8	310.8
72.5°	1538.9	366.4	211.2	251.1	267.6	287.0	305.5	282.5	266.8	272.9	265.6
75°	1156.0	270.9	169.7	196.7	222.9	268.0	297.9	254.3	230.1	224.5	222.9
77.5°	589.3	176.9	127.0	147.1	167.3	242.2	287.4	221.3	190.6	181.8	177.7
80°	210.4	110.0	89.5	101.6	112.9	208.4	251.1	183.0	147.9	146.3	147.9
82.5°	97.5	70.9	60.1	66.5	66.9	139.1	191.5	136.6	112.5	170.9	144.3
85°	41.9	35.5	33.9	33.1	30.6	62.1	107.6	73.4	114.5	51.2	47.2
87.5°	12.5	14.1	12.5	9.3	6.9	6.9	10.9	4.0	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)