

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: P458698

Luminaire Tested: **GALN-SA2C-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12891 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

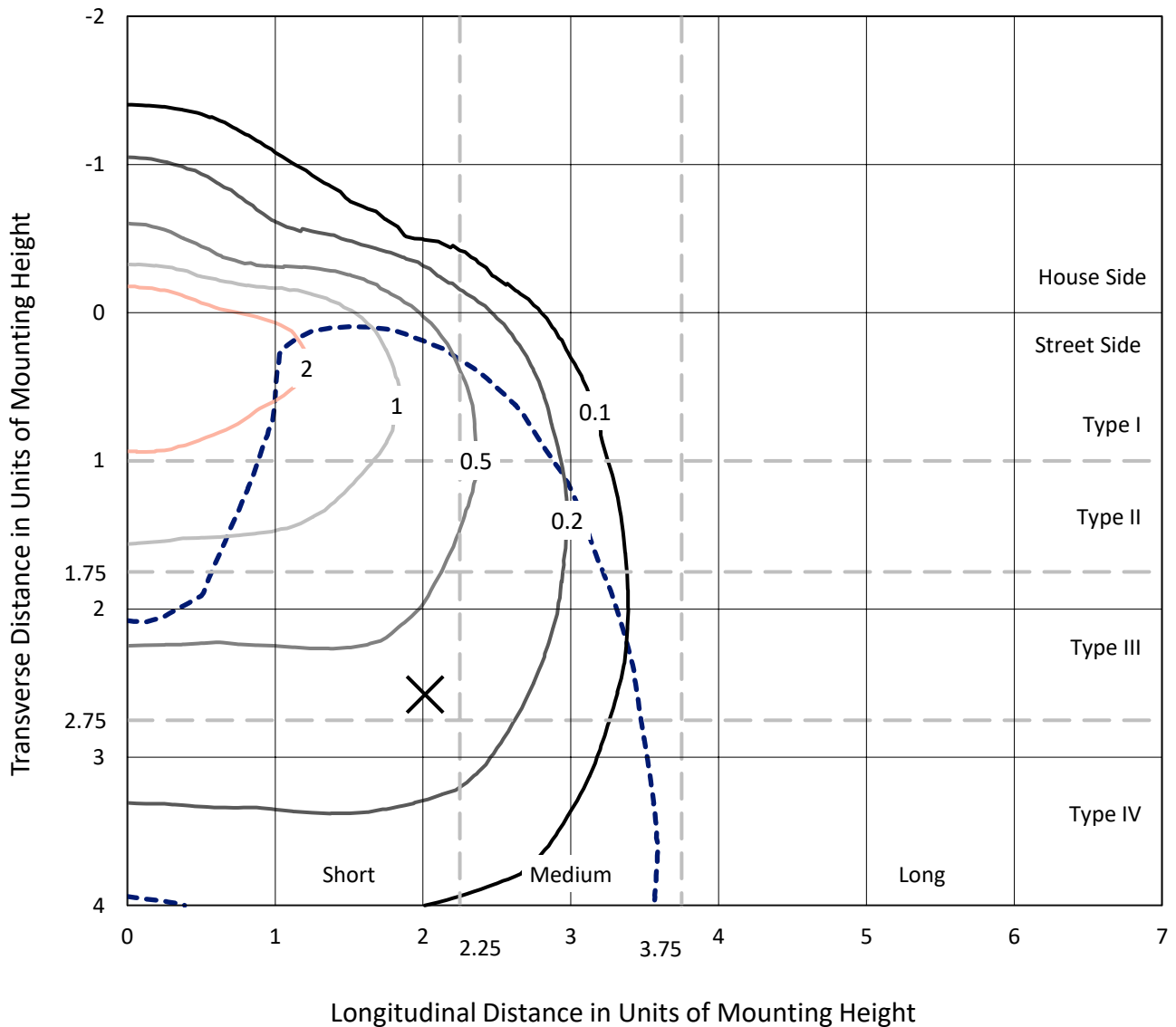
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

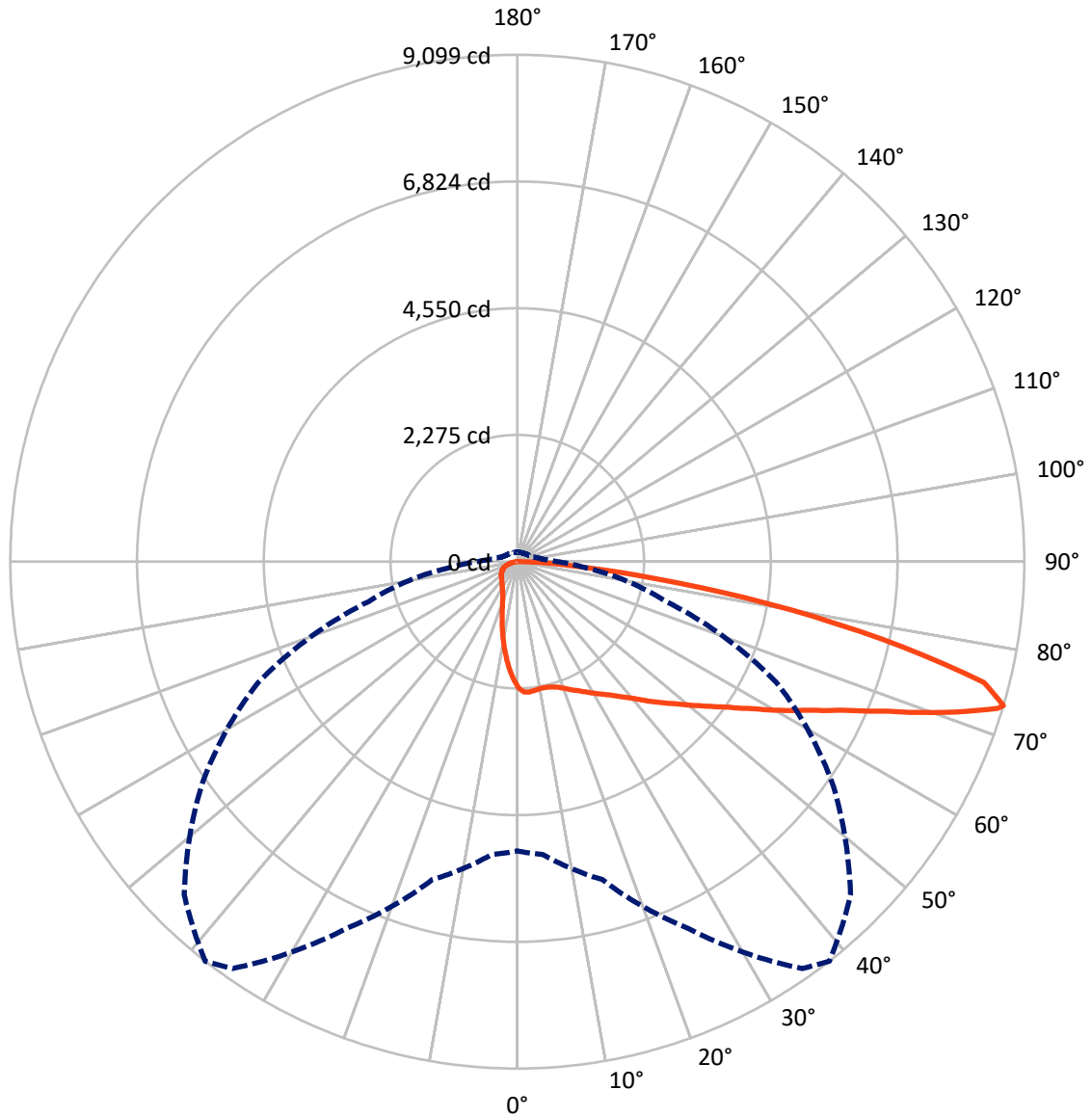
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.9	0.0	1732.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11158.1	0.0	11158.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	12891.0	0.0	12891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	1.5
10°-20°	506.9	3.9
20°-30°	789.4	6.1
30°-40°	1157.9	9.0
40°-50°	1717.5	13.3
50°-60°	2433.4	18.9
60°-70°	3086.9	23.9
70°-80°	2569.6	19.9
80°-90°	431.7	3.3
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°	12891.0	100.0
0°-180°	12891.0	100.0

Coefficient of Utilization



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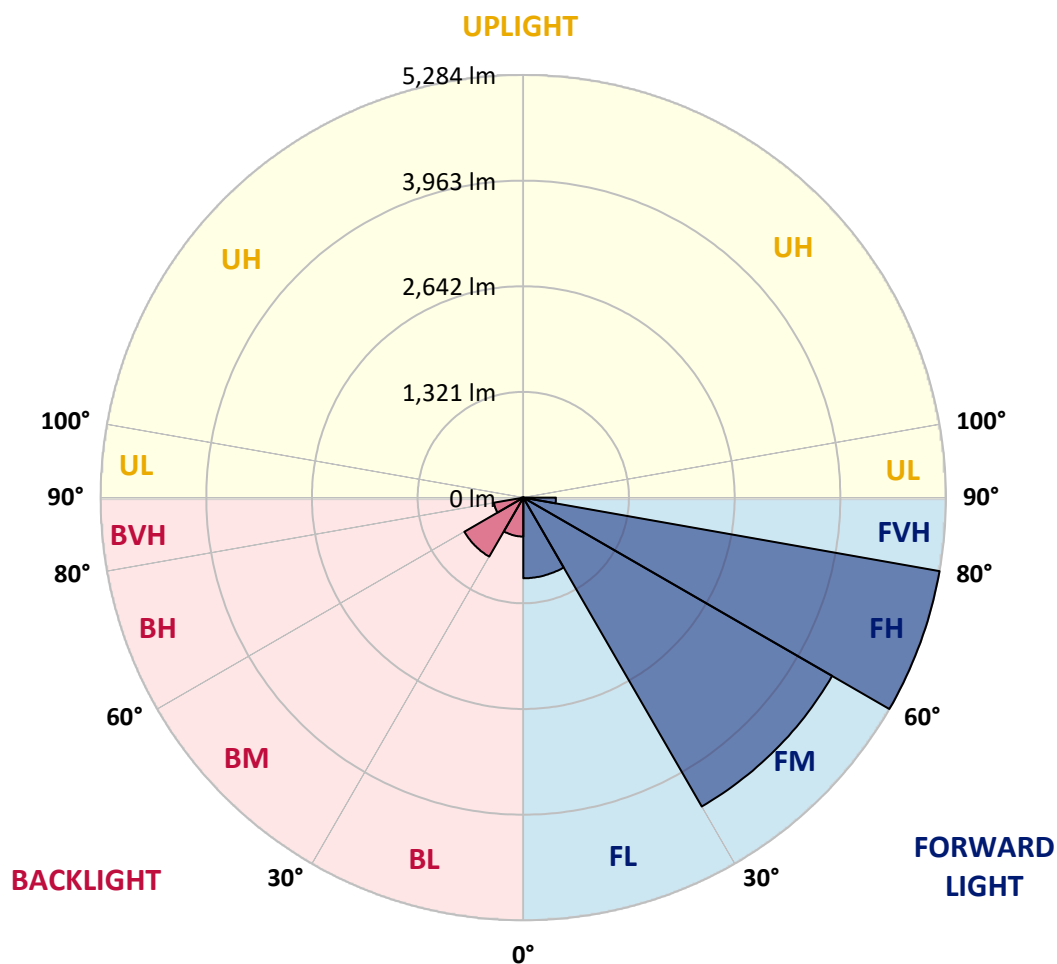
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1007.7	7.8			
FM	(30°-60°)	4458.1	34.6			
FH	(60°-80°)	5284.0	41.0			G3/7500
FVH	(80°-90°)	408.3	3.2			G3/500
BL	(0°-30°)	486.3	3.8	B1/500		
BM	(30°-60°)	850.8	6.6	B1/1000		
BH	(60°-80°)	372.5	2.9	B1/500		G1/500
BVH	(80°-90°)	23.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7
2.5°	2355.7	2367.4	2361.6	2353.5	2348.4	2343.4	2336.1	2315.0	2298.2	2280.0	2251.6
5°	2373.2	2380.5	2375.4	2365.2	2353.5	2348.4	2334.6	2307.0	2280.0	2249.4	2207.2
7.5°	2363.0	2365.9	2360.1	2347.7	2337.5	2328.1	2312.0	2281.5	2248.7	2211.6	2156.3
10°	2326.6	2337.5	2337.5	2327.3	2317.1	2312.0	2296.0	2266.9	2237.1	2194.8	2129.3
12.5°	2296.8	2308.4	2317.9	2315.0	2314.2	2314.2	2301.9	2280.0	2245.1	2205.0	2127.1
15°	2276.4	2290.2	2310.6	2322.2	2329.5	2331.7	2326.6	2307.7	2272.0	2225.4	2135.9
17.5°	2272.0	2288.8	2325.9	2351.4	2370.3	2369.6	2368.1	2341.9	2302.6	2254.5	2146.8
20°	2291.7	2313.5	2365.2	2405.2	2432.9	2427.8	2419.8	2385.6	2339.7	2285.8	2157.0
22.5°	2350.6	2373.2	2430.0	2473.7	2500.6	2500.6	2476.6	2431.4	2382.7	2322.2	2170.8
25°	2435.1	2459.8	2520.2	2564.7	2577.0	2567.6	2543.5	2488.9	2432.9	2374.7	2199.9
27.5°	2538.4	2568.3	2624.3	2661.5	2657.8	2650.6	2625.8	2555.9	2499.9	2446.7	2249.4
30°	2667.3	2689.1	2747.4	2756.1	2743.0	2741.6	2706.6	2636.7	2584.3	2543.5	2320.1
32.5°	2788.9	2808.5	2855.1	2858.8	2835.5	2838.4	2805.6	2741.6	2711.7	2697.1	2438.7
35°	2917.7	2927.9	2968.0	2963.6	2948.3	2946.1	2933.0	2871.9	2881.3	2907.5	2606.9
37.5°	3025.5	3045.8	3068.4	3072.1	3071.3	3078.6	3087.3	3058.2	3112.8	3195.1	2827.5
40°	3124.5	3141.9	3175.4	3187.1	3215.5	3230.0	3259.9	3260.6	3386.5	3521.9	3099.0
42.5°	3191.4	3221.3	3283.9	3305.0	3374.2	3417.8	3462.2	3509.6	3692.3	3866.3	3419.3
45°	3249.7	3289.0	3393.1	3458.6	3552.5	3605.7	3699.6	3798.6	4061.4	4289.2	3744.7
47.5°	3337.8	3372.7	3492.1	3607.8	3749.8	3810.9	3951.4	4099.2	4442.8	4692.5	4056.3
50°	3460.1	3481.2	3602.7	3791.3	3972.6	4051.2	4236.8	4450.1	4850.5	5090.7	4330.0
52.5°	3616.6	3625.3	3722.1	3973.3	4212.1	4309.6	4555.7	4804.6	5207.2	5436.5	4546.9
55°	3801.5	3786.9	3862.6	4166.2	4485.8	4613.2	4877.4	5163.5	5608.3	5716.1	4704.9
57.5°	3984.2	3961.6	4022.1	4400.6	4823.6	4977.2	5285.1	5533.3	5966.5	5977.4	4815.6
60°	4177.8	4161.1	4233.2	4675.8	5237.8	5419.8	5704.4	5917.0	6313.0	6159.4	4833.0
62.5°	4376.6	4349.7	4452.3	4985.2	5704.4	5869.7	6145.6	6324.6	6653.0	6227.1	4664.9
65°	4569.5	4557.1	4715.8	5352.8	6235.8	6423.7	6691.5	6813.1	6925.2	6125.2	4247.7
67.5°	4774.8	4799.5	5052.9	5843.5	6928.9	7164.7	7453.7	7339.4	7003.1	5642.5	3577.3
70°	5087.8	5103.8	5495.5	6486.3	7822.1	8106.7	8246.5	7526.5	6627.5	4726.0	2689.1
72.5°	5222.5	5293.1	5890.8	7161.1	8836.9	9010.9	8512.9	7109.4	5521.0	3210.4	1413.0
73°	5192.6	5277.1	5909.0	7263.7	8916.2	9099.0	8456.2	6894.7	5132.2	2764.8	1211.4
75°	4820.7	4924.8	5672.4	7177.8	8761.9	8652.7	7543.3	5876.2	3468.1	1257.2	551.8
77.5°	3803.7	3833.5	4494.5	5796.1	6899.7	6697.4	5645.4	3672.6	1416.6	467.4	313.0
80°	1908.0	2017.9	2533.4	3320.3	4613.9	4547.7	3563.4	1736.9	590.4	274.4	207.5
82.5°	918.0	995.9	1233.9	1619.0	2549.4	2488.9	1764.6	949.3	374.9	160.2	122.3
85°	591.1	649.4	785.5	772.4	1048.3	1001.0	792.8	718.5	222.0	83.7	85.2
87.5°	390.2	427.3	512.5	409.8	381.5	345.1	350.2	404.8	43.7	32.0	11.6
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°	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7	2264.7
2.5°	2240.0	2230.5	2199.2	2168.6	2139.5	2111.9	2093.7	2069.6	2053.6	2058.0	2064.5
5°	2183.9	2162.8	2107.5	2053.6	2002.7	1942.2	1893.5	1854.2	1824.3	1813.4	1811.2
7.5°	2125.0	2089.3	2009.9	1917.5	1830.9	1755.9	1669.2	1626.3	1576.1	1558.6	1552.8
10°	2089.3	2041.2	1929.9	1801.0	1670.7	1546.2	1452.3	1375.9	1306.7	1293.6	1287.1
12.5°	2079.1	2015.8	1865.8	1699.8	1526.6	1373.7	1234.6	1134.2	1067.2	1051.9	1029.4
15°	2073.3	1994.7	1806.1	1597.9	1378.1	1191.7	1045.4	928.2	867.0	826.3	827.0
17.5°	2068.2	1970.6	1739.1	1486.5	1249.9	1035.2	873.6	768.0	712.0	690.1	687.9
20°	2060.9	1942.2	1662.0	1369.3	1103.6	892.5	746.2	667.6	629.7	611.5	610.8
22.5°	2058.0	1914.6	1586.3	1249.9	974.0	782.6	661.7	606.4	582.4	570.0	570.0
25°	2065.3	1894.9	1506.9	1136.4	859.0	688.7	603.5	565.6	551.8	545.3	543.1
27.5°	2087.8	1886.2	1428.3	1022.8	753.5	624.6	564.2	538.0	527.8	522.7	523.4
30°	2130.8	1885.5	1351.1	910.7	674.8	575.8	532.9	514.7	506.7	503.8	503.0
32.5°	2199.9	1901.5	1275.4	818.2	608.6	535.1	503.8	490.7	487.0	484.8	484.1
35°	2317.1	1946.6	1200.4	733.8	557.6	498.7	476.1	469.5	464.4	466.6	467.4
37.5°	2475.1	2024.5	1129.1	667.6	519.0	471.7	452.8	447.0	444.1	446.2	448.4
40°	2687.0	2136.6	1069.4	614.4	491.4	449.2	432.4	427.3	424.4	428.0	428.8
42.5°	2920.6	2266.2	1019.9	572.9	468.8	430.2	414.2	408.4	406.2	408.4	409.1
45°	3160.9	2416.9	994.4	543.1	449.9	416.4	399.7	393.1	388.0	386.6	388.7
47.5°	3397.5	2547.9	993.7	524.9	434.6	404.0	385.8	378.5	372.0	368.4	367.6
50°	3590.4	2652.0	1011.2	516.9	421.5	390.2	372.0	364.7	356.0	348.7	350.2
52.5°	3736.0	2719.7	1019.2	513.2	414.2	375.6	357.4	350.9	340.7	331.2	331.2
55°	3829.9	2735.7	999.5	509.6	408.4	360.3	340.7	334.9	324.7	315.2	315.2
57.5°	3861.9	2686.2	928.9	500.8	402.6	347.2	323.9	318.9	310.8	301.4	299.9
60°	3787.7	2518.8	805.1	474.6	390.9	333.4	305.7	303.6	300.7	292.6	291.9
62.5°	3501.6	2163.5	670.5	440.4	371.3	318.9	289.0	292.6	294.8	290.5	289.7
65°	3025.5	1756.6	572.9	393.1	345.1	298.5	270.8	280.3	286.1	286.1	284.6
67.5°	2454.0	1348.9	482.6	352.3	312.3	270.8	250.4	257.7	262.1	260.6	264.3
70°	1744.2	913.6	393.1	305.7	270.8	239.5	224.2	224.2	221.3	219.8	219.8
72.5°	845.9	522.0	318.9	255.5	230.8	204.6	192.2	187.1	181.3	180.5	176.9
73°	706.9	468.1	304.3	246.1	221.3	199.5	185.6	177.6	174.0	171.1	170.3
75°	430.2	355.3	254.1	207.5	188.5	171.8	159.4	152.1	148.5	146.3	145.6
77.5°	283.2	265.0	197.3	158.7	144.1	133.9	128.9	121.6	119.4	116.5	116.5
80°	211.1	202.4	141.2	112.1	103.4	94.6	93.2	91.7	85.9	82.3	80.8
82.5°	136.1	144.1	96.1	75.0	65.5	58.2	59.0	61.1	55.3	50.2	48.8
85°	96.8	104.1	58.2	34.2	27.7	24.0	26.9	24.0	24.8	19.7	16.0
87.5°	16.0	27.7	10.2	4.4	2.2	1.5	0.0	0.0	0.0	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)