

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: P451763

Luminaire Tested: **GALN-SA2C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11214 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 108
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

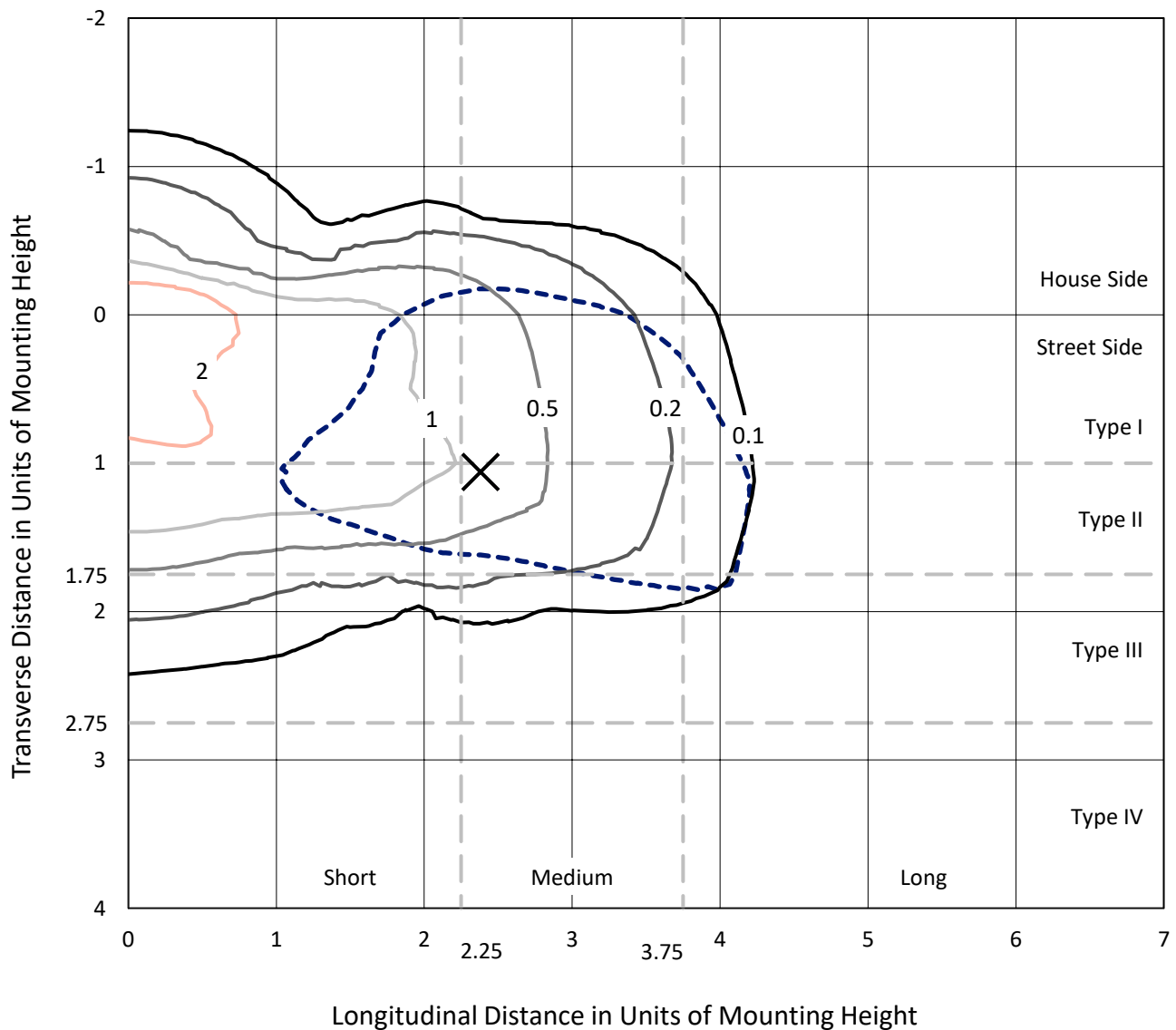


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

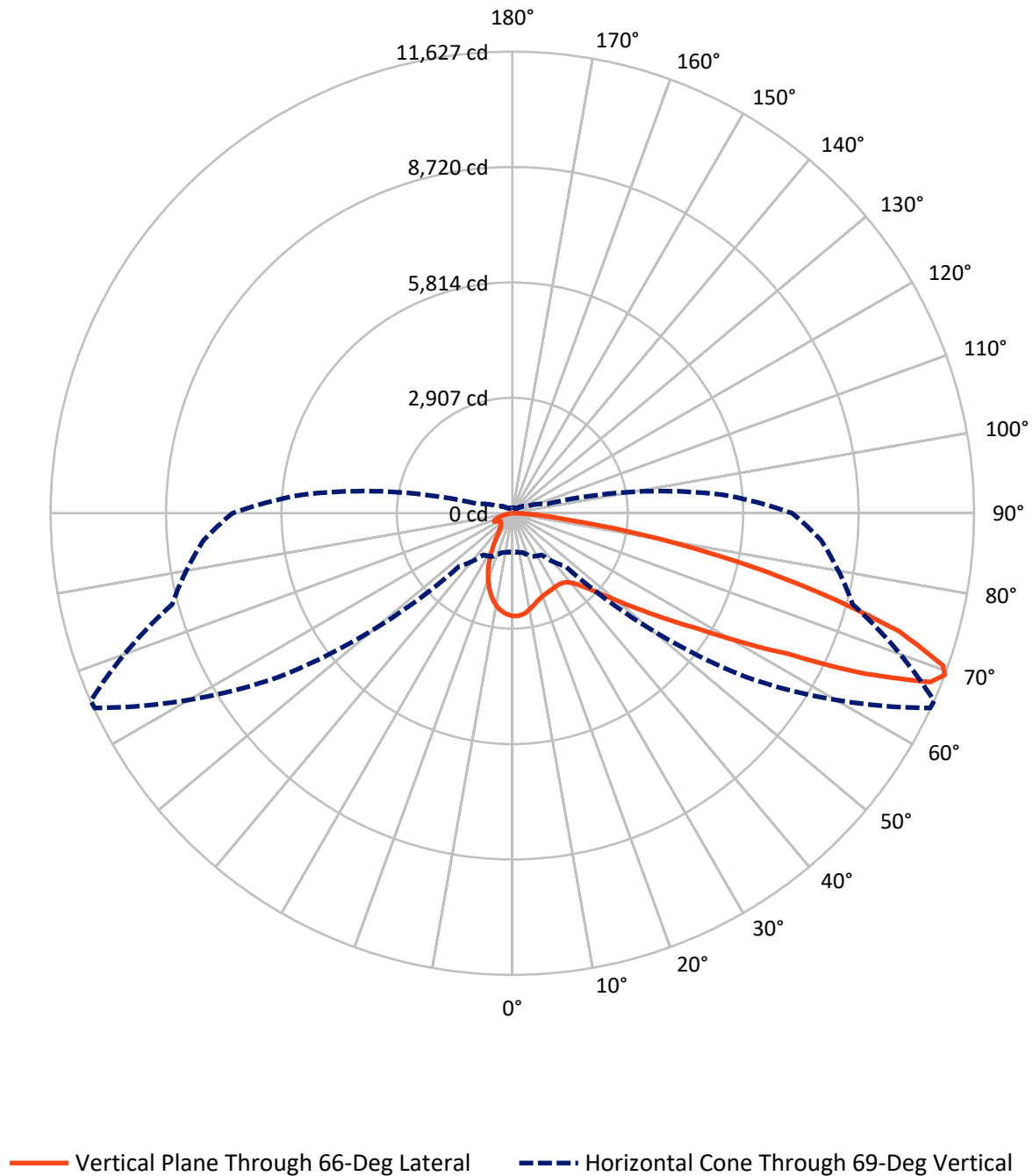


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.9	0.0	2108.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9105.1	0.0	9105.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11214.0	0.0	11214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	2.0
10°-20°	533.4	4.8
20°-30°	726.2	6.5
30°-40°	975.8	8.7
40°-50°	1457.0	13.0
50°-60°	2317.6	20.7
60°-70°	2850.6	25.4
70°-80°	1854.7	16.5
80°-90°	273.9	2.4
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°	11214.0	100.0
0°-180°	11214.0	100.0

Coefficient of Utilization



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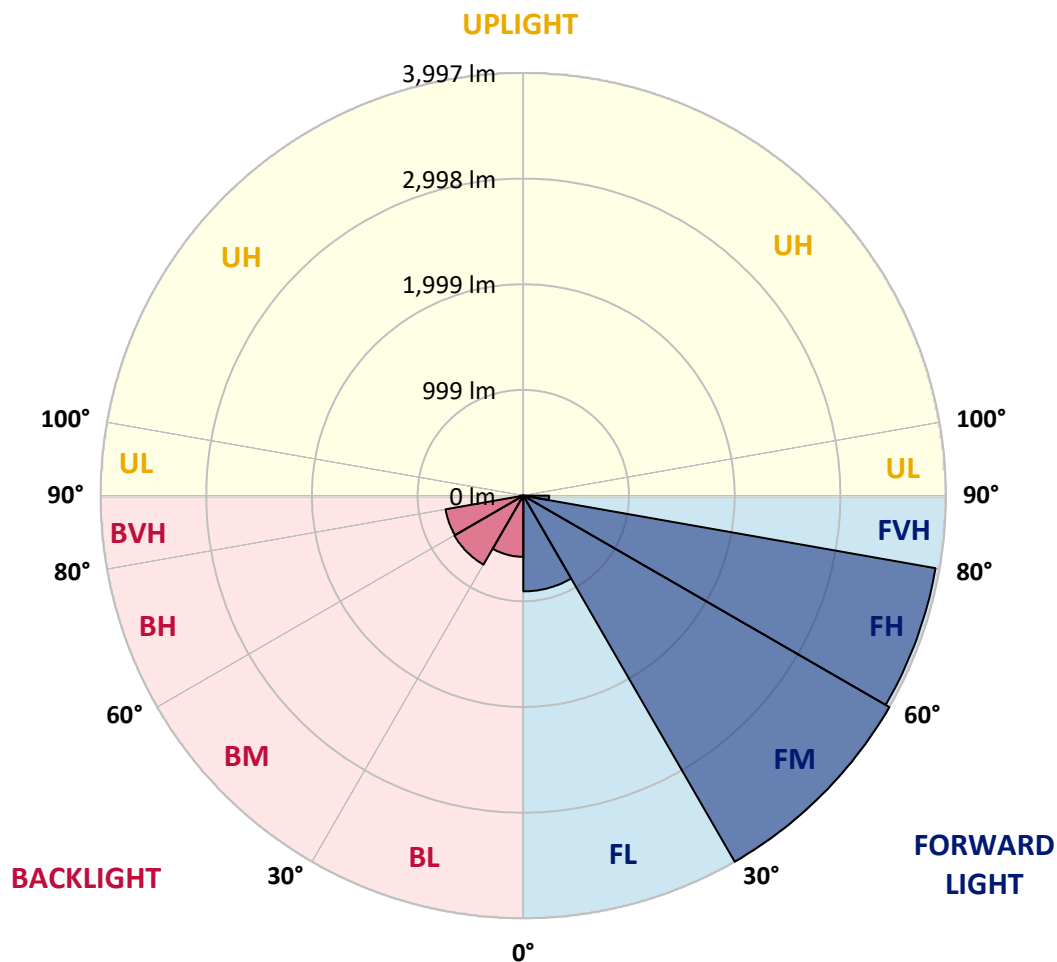
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.5	8.1			
FM	(30°-60°)	3997.5	35.6			
FH	(60°-80°)	3958.6	35.3			G2/5000
FVH	(80°-90°)	243.5	2.2			G3/500
BL	(0°-30°)	578.9	5.2	B2/1000		
BM	(30°-60°)	753.0	6.7	B1/1000		
BH	(60°-80°)	746.7	6.7	B2/1000		G2/1000
BVH	(80°-90°)	30.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2499.0	2508.9	2520.1	2532.5	2556.1	2569.1	2578.4	2589.0	2590.2	2595.8	2591.5
5°	2314.5	2326.3	2343.1	2366.7	2402.1	2457.3	2514.5	2561.1	2566.6	2592.7	2600.2
7.5°	2160.5	2167.3	2181.0	2218.9	2269.2	2330.7	2413.9	2508.3	2521.9	2584.0	2605.8
10°	2035.1	2041.9	2058.0	2097.2	2146.8	2223.8	2315.1	2439.3	2450.5	2557.3	2607.0
12.5°	1941.3	1947.5	1964.9	2003.4	2060.5	2132.6	2233.2	2364.8	2381.0	2521.9	2595.2
15°	1869.9	1881.7	1896.0	1927.6	1987.9	2057.4	2154.9	2296.5	2309.5	2484.7	2587.1
17.5°	1839.4	1845.0	1855.0	1884.2	1928.2	1996.6	2094.7	2243.1	2258.6	2458.6	2585.3
20°	1840.7	1846.3	1848.1	1864.3	1896.0	1954.9	2051.8	2200.9	2219.5	2435.6	2588.4
22.5°	1882.9	1883.5	1876.7	1871.1	1883.5	1932.6	2021.4	2169.2	2190.9	2425.7	2590.9
25°	1948.1	1959.3	1949.4	1923.3	1900.3	1923.9	2009.6	2151.8	2172.3	2411.4	2587.8
27.5°	2053.7	2055.6	2047.5	2012.1	1952.5	1935.1	2004.6	2138.8	2156.2	2400.8	2572.2
30°	2195.3	2189.7	2182.2	2143.1	2049.3	1977.9	2015.2	2127.0	2145.0	2385.3	2553.6
32.5°	2338.7	2356.1	2349.3	2303.3	2181.6	2061.1	2049.3	2125.7	2140.6	2373.5	2533.1
35°	2490.9	2499.0	2531.2	2507.7	2382.8	2195.9	2113.3	2145.0	2156.8	2374.1	2518.8
37.5°	2610.1	2631.9	2707.6	2728.1	2610.7	2374.1	2217.0	2199.6	2204.6	2404.6	2524.4
40°	2754.2	2791.5	2889.0	2972.8	2895.8	2605.8	2393.4	2300.9	2307.1	2477.8	2561.1
42.5°	2936.8	2962.9	3093.9	3207.5	3195.1	2911.9	2607.0	2466.7	2469.8	2623.8	2663.5
45°	3150.4	3187.7	3334.8	3505.6	3534.8	3258.5	2915.7	2717.6	2715.7	2850.4	2854.8
47.5°	3423.6	3446.6	3592.6	3778.9	3896.9	3693.8	3290.1	3077.7	3057.9	3180.8	3145.4
50°	3675.2	3711.2	3821.7	4025.4	4319.1	4203.6	3782.6	3544.7	3498.2	3613.1	3553.4
52.5°	3780.7	3818.6	3911.8	4164.5	4681.2	4863.2	4408.0	4101.8	4024.2	4112.3	4090.6
55°	3597.5	3646.6	3733.5	4040.9	4840.2	5623.9	5251.3	4745.8	4689.3	4651.4	4657.6
57.5°	3105.1	3151.6	3269.0	3608.1	4650.1	6176.0	6455.4	5573.6	5452.5	5278.0	5307.8
60°	2363.6	2392.8	2453.6	2829.3	4086.9	6319.4	7822.9	6620.0	6543.0	5902.1	5923.2
62.5°	1678.6	1711.5	1753.7	1941.3	2992.0	5915.1	8893.5	8081.2	7806.1	6548.6	6528.1
65°	1363.1	1340.8	1391.7	1479.3	1755.6	4584.3	9134.5	10109.5	9730.7	7400.0	7115.6
67.5°	1120.9	1097.3	1147.6	1303.5	1335.2	2661.0	8266.3	11426.0	11350.3	8325.9	7712.4
69°	992.4	980.0	1024.1	1201.7	1281.8	1889.7	7201.3	11609.2	11627.2	8871.8	7804.3
70°	894.3	899.2	942.1	1150.1	1257.6	1558.1	6154.9	11356.5	11509.2	9144.4	7704.9
72.5°	658.3	668.8	728.4	952.6	1234.6	1322.1	3662.7	9919.4	10189.6	9160.6	7048.5
75°	460.2	455.2	508.0	717.3	1166.3	1310.3	2151.2	7671.4	7977.5	7917.9	5922.6
77.5°	301.2	309.3	351.5	506.7	981.2	1300.4	1402.2	5442.6	5641.3	5295.4	3503.1
80°	212.4	211.8	235.4	345.9	727.8	1249.5	1148.3	3430.5	3380.2	2081.0	1039.0
82.5°	121.7	130.4	157.7	243.4	486.9	1099.8	1056.3	1640.7	1497.9	593.1	350.9
85°	67.7	70.8	93.8	147.2	284.4	828.4	922.2	746.5	704.2	247.8	150.9
87.5°	21.7	23.6	39.1	74.5	129.2	391.2	522.3	344.7	318.0	89.4	60.9
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°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2593.4	2600.8	2580.9	2561.7	2544.3	2520.1	2498.3	2480.3	2467.9	2466.0	2459.8
5°	2602.0	2602.7	2564.8	2513.9	2464.2	2409.5	2353.0	2312.7	2274.8	2253.7	2243.1
7.5°	2608.3	2602.7	2534.4	2451.8	2356.1	2256.8	2157.4	2077.9	2016.4	1992.2	2001.5
10°	2605.8	2588.4	2488.4	2356.1	2217.0	2068.6	1925.8	1814.0	1711.5	1658.7	1660.0
12.5°	2592.1	2563.5	2420.1	2248.7	2044.4	1845.7	1627.1	1476.1	1357.5	1287.4	1265.6
15°	2580.3	2530.6	2340.0	2102.7	1848.8	1565.0	1298.5	1112.2	1012.9	957.6	957.0
17.5°	2567.9	2499.0	2252.4	1948.1	1623.9	1258.8	979.3	837.1	790.5	796.1	786.8
20°	2554.8	2461.7	2161.1	1776.1	1350.1	939.0	733.4	675.7	688.7	714.2	717.9
22.5°	2539.9	2422.0	2063.0	1586.7	1061.9	706.7	594.9	586.2	619.8	659.5	665.1
25°	2517.0	2372.3	1939.4	1388.6	819.1	569.5	521.0	527.2	560.2	593.7	597.4
27.5°	2484.7	2310.8	1814.6	1141.4	615.4	488.7	476.3	484.4	500.5	521.0	526.0
30°	2441.2	2241.2	1671.1	927.8	493.1	448.4	443.4	447.8	457.1	465.8	468.2
32.5°	2397.7	2174.2	1526.4	710.4	439.7	421.7	416.7	416.7	416.7	417.9	418.6
35°	2357.4	2110.8	1371.2	553.3	411.7	400.6	393.7	386.3	385.0	380.7	380.7
37.5°	2335.0	2053.1	1206.0	463.3	391.2	383.2	373.8	361.4	354.6	355.2	354.0
40°	2339.4	2015.2	1055.7	412.4	374.5	365.8	351.5	337.2	332.9	332.9	331.6
42.5°	2388.4	2002.8	911.6	385.6	358.3	348.4	330.4	317.3	314.9	314.2	315.5
45°	2501.4	2033.2	782.5	368.3	344.7	329.8	311.7	299.9	297.5	297.5	296.8
47.5°	2721.9	2131.9	689.9	357.1	334.7	315.5	296.8	285.0	280.7	279.5	279.5
50°	3064.7	2346.2	621.0	347.1	322.3	302.4	283.2	269.5	262.7	262.1	261.4
52.5°	3541.0	2680.3	594.3	339.7	308.6	288.8	267.7	254.6	245.9	244.1	242.8
55°	4098.1	3146.7	630.9	334.1	294.4	273.2	251.5	237.8	229.8	226.0	225.4
57.5°	4743.3	3706.8	770.1	326.7	281.3	256.5	235.4	221.7	213.0	208.7	207.4
60°	5322.7	4282.5	1012.9	322.3	270.1	238.5	216.7	204.3	196.2	191.9	191.3
62.5°	5959.2	4831.5	1302.9	334.1	265.2	221.1	199.3	188.2	181.3	177.0	177.0
65°	6639.2	5381.1	1494.8	373.8	272.6	207.4	180.7	171.4	165.2	162.1	161.5
67.5°	7097.6	5571.1	1231.5	414.8	291.3	192.5	162.7	155.3	151.5	148.4	148.4
69°	7047.9	5330.8	908.5	425.4	296.8	185.1	152.8	147.2	142.2	141.0	139.7
70°	6890.8	5056.9	761.4	418.6	292.5	178.2	146.6	139.7	135.4	134.1	133.5
72.5°	6137.5	4385.6	567.0	363.9	249.0	154.6	129.8	123.6	119.9	118.0	118.0
75°	5099.1	3584.5	442.8	289.4	195.0	130.4	111.2	106.2	103.1	101.8	101.2
77.5°	2857.9	2001.5	318.0	226.7	147.8	105.6	93.2	88.8	85.7	84.5	84.5
80°	796.1	572.0	186.9	149.7	100.6	80.1	73.9	70.8	66.4	63.3	65.2
82.5°	299.9	247.8	106.8	90.0	64.0	53.4	51.5	49.1	47.2	42.8	42.8
85°	145.9	120.5	68.3	47.8	35.4	27.9	26.7	25.5	24.2	21.1	21.7
87.5°	50.3	53.4	29.8	17.4	10.6	6.8	5.6	3.1	3.1	3.1	3.1
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)