

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: P528101

Luminaire Tested: **GALN-SA3A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6332 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 93
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



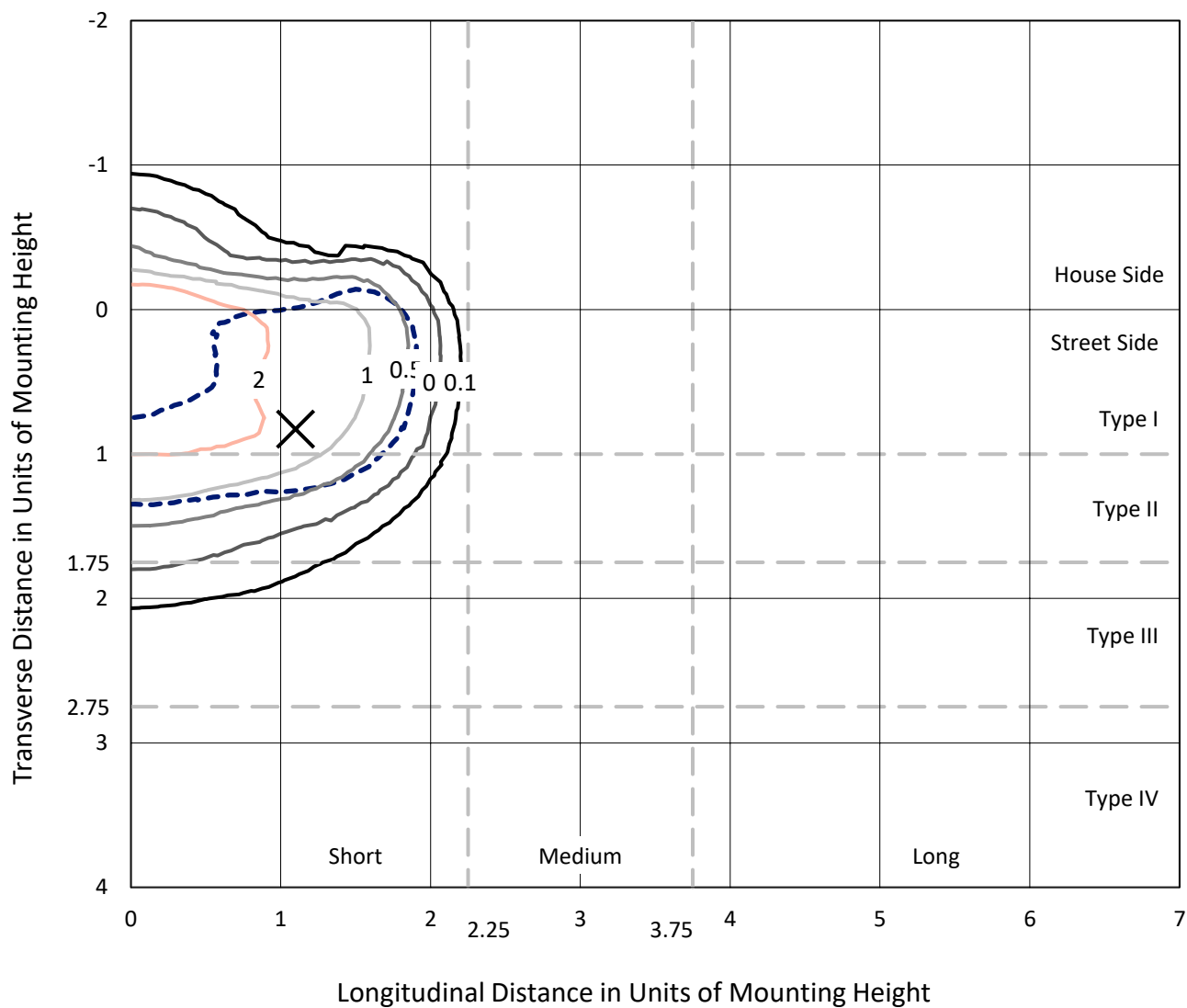
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

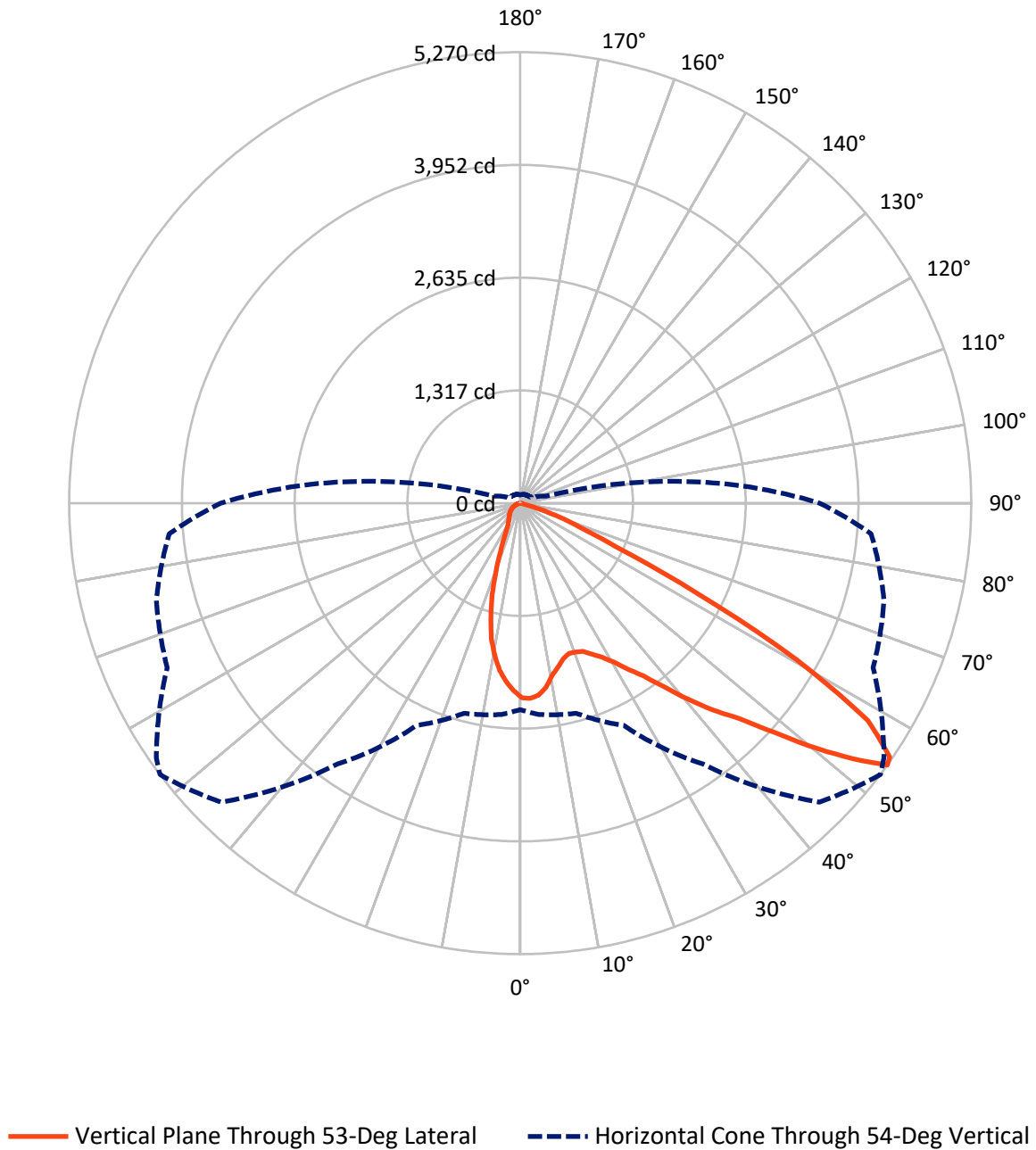


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1047.6	0.0	1047.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5284.4	0.0	5284.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	6332.0	0.0	6332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	3.1
10°-20°	447.4	7.1
20°-30°	635.8	10.0
30°-40°	981.2	15.5
40°-50°	1538.5	24.3
50°-60°	1787.2	28.2
60°-70°	675.3	10.7
70°-80°	64.2	1.0
80°-90°	7.2	0.1
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°	6332.0	100.0
0°-180°	6332.0	100.0

Coefficient of Utilization



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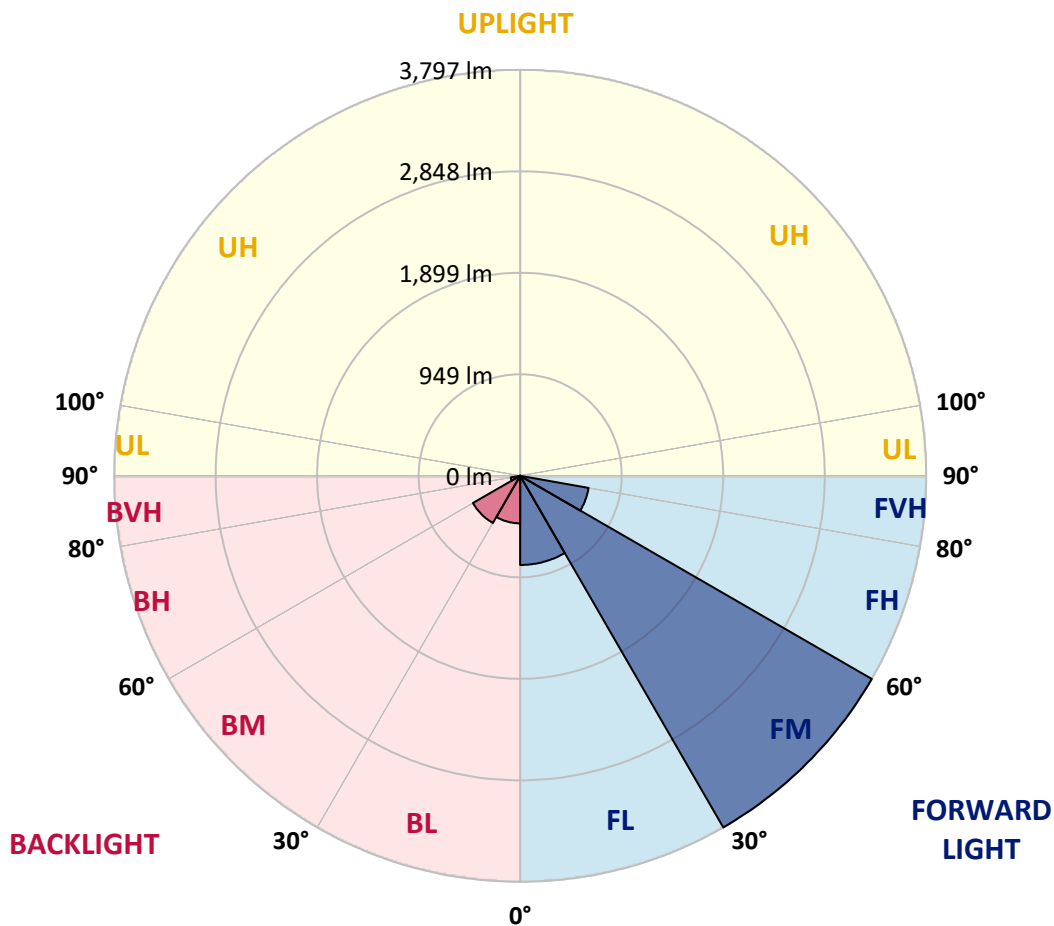
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	833.8	13.2			
FM	(30°-60°)	3797.1	60.0			
FH	(60°-80°)	649.8	10.3			G0/660
FVH	(80°-90°)	3.7	0.1			G0/10
BL	(0°-30°)	444.6	7.0	B1/500		
BM	(30°-60°)	509.8	8.1	B1/1000		
BH	(60°-80°)	89.8	1.4	B0/110		G0/110
BVH	(80°-90°)	3.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3
2.5°	2262.6	2242.5	2262.6	2264.9	2279.1	2292.0	2283.8	2302.7	2292.0	2280.2	2276.7
5°	2079.7	2106.8	2108.0	2150.5	2141.0	2218.9	2253.1	2243.7	2301.5	2297.9	2289.7
7.5°	1915.7	1905.1	1919.3	1968.8	2031.3	2121.0	2170.5	2169.4	2251.9	2310.9	2305.0
10°	1763.6	1762.4	1791.9	1830.8	1883.9	1978.3	2046.7	2080.9	2209.5	2299.1	2312.1
12.5°	1660.9	1656.2	1688.1	1719.9	1803.7	1876.8	1964.1	1980.6	2128.1	2257.8	2279.1
15°	1593.7	1604.3	1606.7	1668.0	1721.1	1817.8	1886.2	1920.5	2090.3	2224.8	2306.2
17.5°	1581.9	1596.1	1597.2	1648.0	1704.6	1786.0	1846.1	1892.1	2058.5	2241.3	2307.4
20°	1605.5	1597.2	1604.3	1636.2	1691.6	1769.5	1856.8	1872.1	2047.9	2249.6	2320.4
22.5°	1672.7	1670.4	1652.7	1678.6	1717.6	1799.0	1881.5	1905.1	2078.5	2292.0	2331.0
25°	1747.0	1760.0	1743.5	1740.0	1767.1	1847.3	1957.0	1987.7	2181.2	2368.7	2364.0
27.5°	1886.2	1873.3	1873.3	1856.8	1849.7	1888.6	2038.4	2089.1	2295.6	2467.8	2401.7
30°	2019.5	2033.7	2023.1	2029.0	1981.8	1978.3	2154.0	2216.5	2498.5	2618.8	2482.0
32.5°	2230.7	2211.8	2229.5	2214.2	2151.7	2088.0	2310.9	2375.8	2743.8	2792.2	2602.3
35°	2406.5	2398.2	2473.7	2471.3	2369.9	2307.4	2477.2	2574.0	2914.9	2999.8	2743.8
37.5°	2656.6	2641.2	2727.3	2768.6	2677.8	2584.6	2715.5	2827.6	3074.1	3166.2	2888.9
40°	2913.7	2952.6	3068.2	3136.7	3039.9	2916.1	3006.9	3041.1	3180.3	3274.7	2988.0
42.5°	3239.3	3295.9	3413.9	3472.9	3464.6	3330.1	3303.0	3301.8	3257.0	3244.0	3061.2
45°	3551.9	3530.7	3712.3	3840.9	3944.7	3905.8	3588.5	3553.1	3378.5	3290.0	3080.0
47.5°	3688.7	3681.7	3805.5	4034.4	4388.3	4436.6	4003.7	3866.9	3583.7	3483.5	3182.7
50°	3511.8	3548.4	3671.0	3924.7	4467.3	4836.5	4513.3	4329.3	3823.2	3719.4	3425.7
52.5°	2933.8	2958.5	3075.3	3397.4	4198.3	5072.5	5001.7	4895.5	4263.2	4091.0	3849.2
54°	2412.4	2478.4	2542.1	2865.3	3719.4	4941.5	5269.5	5188.1	4549.9	4400.1	4115.8
55°	2100.9	2139.9	2185.9	2507.9	3387.9	4719.7	5238.8	5245.9	4742.2	4496.8	4295.1
57.5°	1534.7	1561.8	1514.7	1657.4	2326.3	3832.7	4791.7	4982.8	5001.7	4641.9	4404.8
60°	1172.6	1184.4	1131.3	1153.7	1446.2	2630.6	3706.4	3936.5	4512.1	4056.8	3731.2
62.5°	909.5	911.9	910.7	949.6	996.8	1547.7	2318.0	2522.1	3110.7	2880.7	2533.9
65°	670.0	659.4	678.3	796.3	850.5	973.2	1220.9	1369.6	1690.4	1427.4	1020.4
67.5°	434.1	437.6	456.5	592.2	729.0	746.7	751.4	739.6	740.8	408.2	256.0
70°	260.7	266.6	260.7	335.0	521.4	535.6	489.6	477.8	372.8	96.7	95.6
72.5°	154.5	146.3	130.9	143.9	217.1	259.5	233.6	232.4	146.3	56.6	56.6
75°	64.9	59.0	48.4	43.6	57.8	55.4	55.4	49.5	38.9	37.7	35.4
77.5°	13.0	13.0	9.4	10.6	14.2	16.5	20.1	20.1	23.6	23.6	22.4
80°	0.0	1.2	3.5	7.1	10.6	15.3	17.7	17.7	20.1	20.1	16.5
82.5°	0.0	1.2	3.5	7.1	9.4	14.2	17.7	17.7	20.1	21.2	17.7
85°	0.0	1.2	3.5	5.9	9.4	11.8	11.8	10.6	8.3	7.1	4.7
87.5°	0.0	0.0	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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°	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3
2.5°	2285.0	2283.8	2255.5	2209.5	2198.9	2159.9	2155.2	2131.6	2144.6	2100.9	2096.2
5°	2266.1	2251.9	2217.7	2188.2	2102.1	2040.8	1992.4	1933.4	1899.2	1905.1	1882.7
7.5°	2293.2	2256.7	2196.5	2093.9	1988.9	1881.5	1823.7	1703.4	1659.8	1594.9	1585.4
10°	2264.9	2237.8	2144.6	1974.7	1829.6	1675.1	1539.4	1406.1	1304.7	1261.0	1251.6
12.5°	2262.6	2215.4	2059.7	1870.9	1660.9	1439.2	1242.2	1075.8	975.6	918.9	906.0
15°	2226.0	2169.4	1964.1	1710.5	1420.3	1144.3	929.6	769.1	692.4	659.4	668.9
17.5°	2229.5	2144.6	1868.6	1540.6	1183.2	839.9	634.6	552.1	532.0	540.3	540.3
20°	2226.0	2089.1	1752.9	1344.8	906.0	582.7	466.0	436.5	449.4	475.4	469.5
22.5°	2207.1	2063.2	1646.8	1138.4	666.5	431.7	373.9	375.1	395.2	427.0	434.1
25°	2221.3	2005.4	1512.3	929.6	486.0	344.5	324.4	332.7	353.9	377.5	382.2
27.5°	2210.6	1964.1	1371.9	721.9	355.1	296.1	294.9	304.3	313.8	331.5	331.5
30°	2222.4	1926.4	1233.9	536.7	292.6	271.3	266.6	273.7	283.1	286.7	285.5
32.5°	2266.1	1898.0	1074.7	401.1	258.3	247.7	247.7	247.7	246.5	251.3	252.4
35°	2361.6	1902.8	934.3	310.2	235.9	227.7	224.1	219.4	217.1	219.4	220.6
37.5°	2465.4	1900.4	789.2	264.2	219.4	212.3	204.1	197.0	195.8	198.2	194.6
40°	2511.5	1922.8	654.7	237.1	204.1	195.8	182.8	176.9	178.1	180.5	178.1
42.5°	2574.0	1929.9	567.4	215.9	189.9	176.9	168.7	161.6	160.4	164.0	162.8
45°	2572.8	1889.8	475.4	204.1	176.9	162.8	152.2	146.3	146.3	148.6	149.8
47.5°	2648.3	1883.9	408.2	193.5	167.5	153.4	140.4	135.7	134.5	134.5	132.1
50°	2824.1	1966.5	356.3	181.7	155.7	142.7	132.1	126.2	121.5	119.1	118.0
52.5°	3167.3	2223.6	316.1	167.5	142.7	132.1	122.7	118.0	112.1	106.2	105.0
54°	3500.0	2489.0	313.8	155.7	132.1	125.0	116.8	114.4	107.3	99.1	96.7
55°	3649.8	2643.6	322.0	146.3	125.0	120.3	113.2	110.9	103.8	94.4	93.2
57.5°	3773.7	2703.7	317.3	121.5	113.2	112.1	106.2	102.6	94.4	81.4	79.0
60°	3037.6	2044.3	227.7	107.3	103.8	101.4	96.7	94.4	83.8	69.6	68.4
62.5°	1919.3	1176.1	145.1	94.4	90.8	87.3	81.4	79.0	69.6	55.4	51.9
65°	817.5	487.2	97.9	83.8	77.9	72.0	67.2	63.7	55.4	41.3	40.1
67.5°	212.3	173.4	81.4	73.1	64.9	56.6	53.1	47.2	37.7	28.3	27.1
70°	95.6	87.3	68.4	61.3	51.9	43.6	38.9	33.0	24.8	18.9	17.7
72.5°	56.6	55.4	51.9	46.0	38.9	33.0	28.3	22.4	16.5	10.6	10.6
75°	35.4	34.2	35.4	31.9	27.1	24.8	21.2	15.3	9.4	4.7	4.7
77.5°	21.2	21.2	21.2	20.1	18.9	18.9	15.3	9.4	4.7	1.2	1.2
80°	16.5	16.5	17.7	16.5	16.5	16.5	13.0	7.1	2.4	0.0	0.0
82.5°	16.5	17.7	20.1	18.9	16.5	14.2	11.8	7.1	2.4	0.0	0.0
85°	4.7	3.5	5.9	8.3	11.8	10.6	8.3	5.9	2.4	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	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)