

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: P199974

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL3-7030-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9708.8 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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: 25 FT

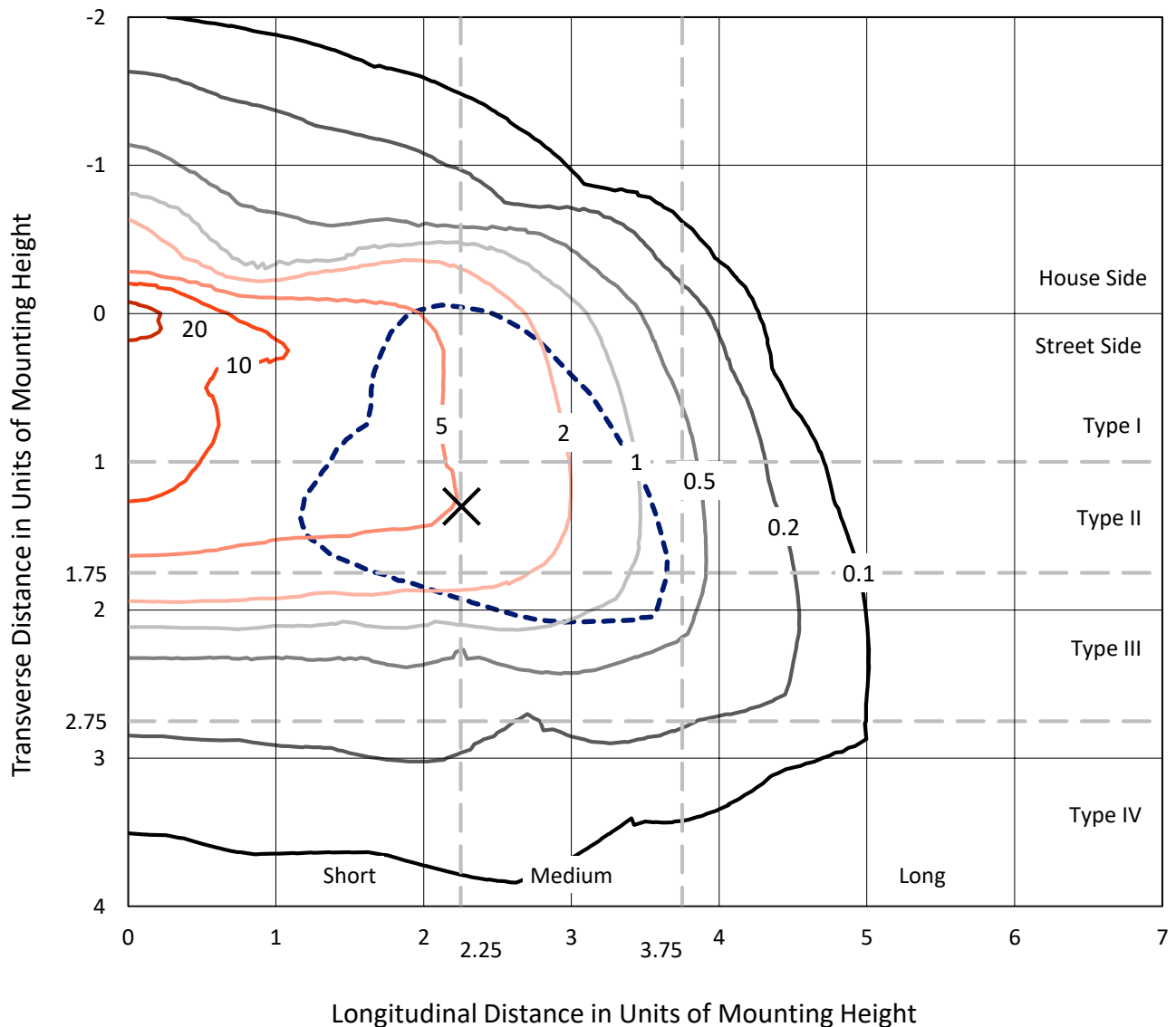


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Iso-Footcandle Lines of Horizontal Illumination

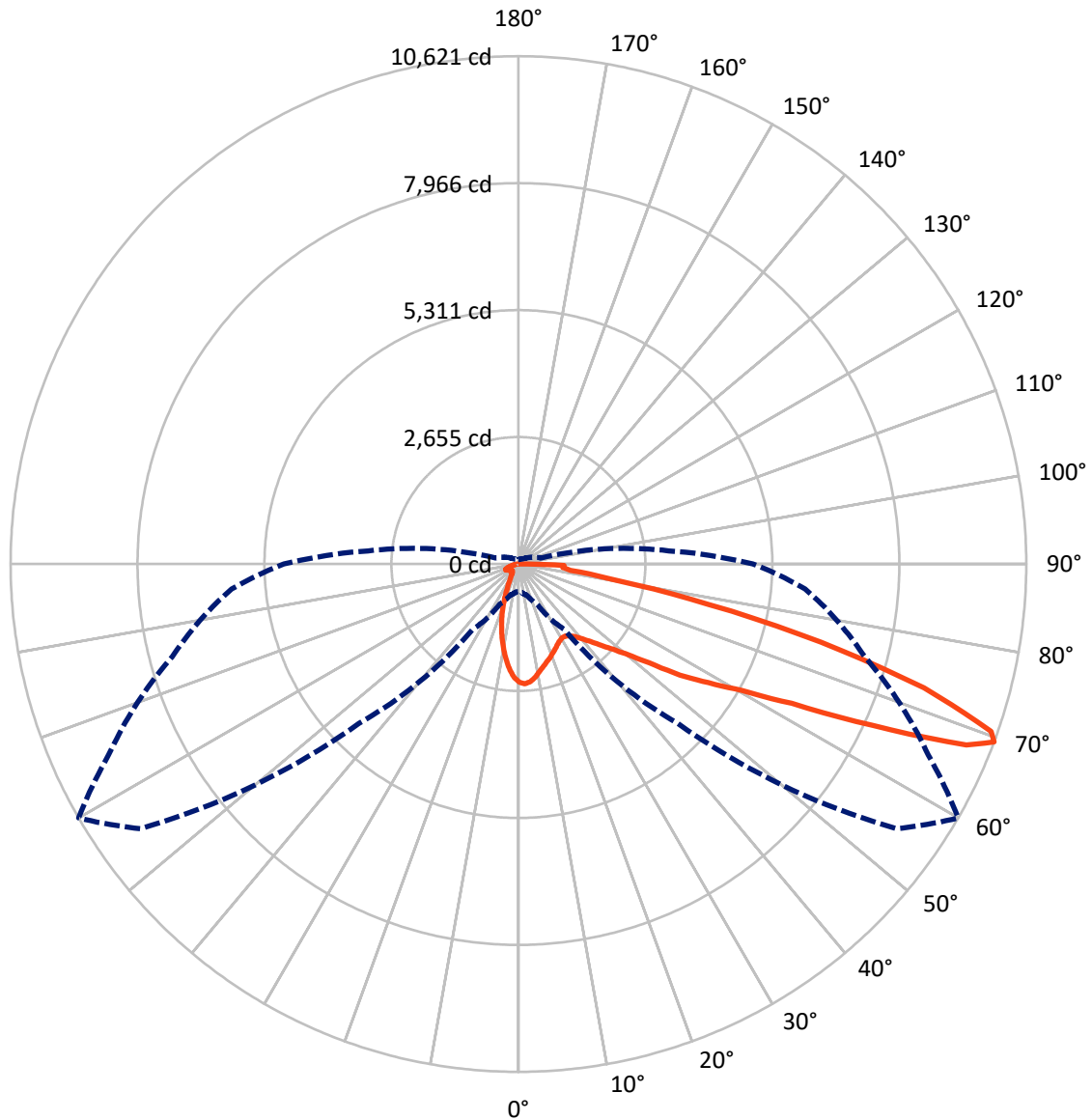
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1381.3	0.0	1381.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8327.5	0.0	8327.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	9708.8	0.0	9708.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	2.2
10°-20°	445.7	4.6
20°-30°	567.9	5.8
30°-40°	780.7	8.0
40°-50°	1266.7	13.0
50°-60°	2031.5	20.9
60°-70°	2703.8	27.8
70°-80°	1459.8	15.0
80°-90°	243.6	2.5
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°	9708.8	100.0
0°-180°	9708.8	100.0

Coefficient of Utilization



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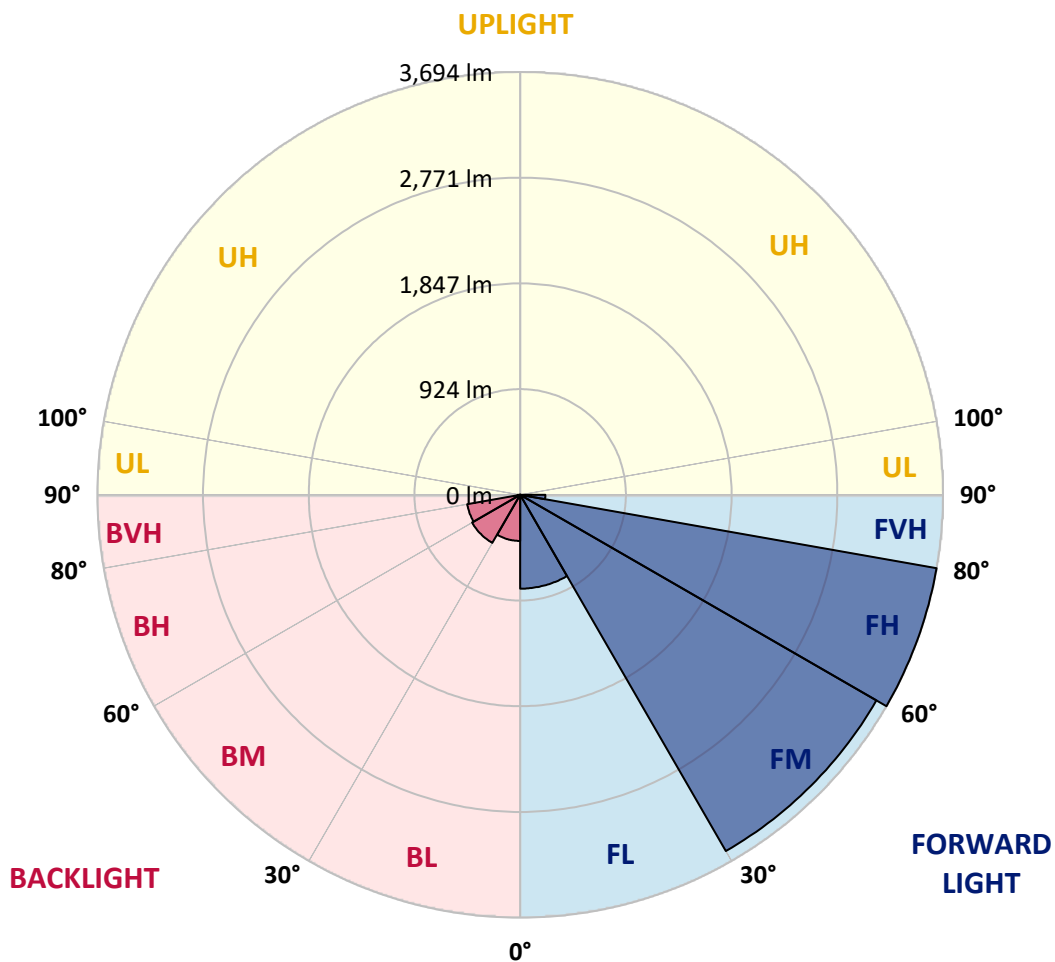
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.8	8.4			
FM	(30°-60°)	3593.6	37.0			
FH	(60°-80°)	3694.0	38.0			G2/5000
FVH	(80°-90°)	220.1	2.3			G2/225
BL	(0°-30°)	403.0	4.2	B1/500		
BM	(30°-60°)	485.3	5.0	B1/1000		
BH	(60°-80°)	469.6	4.8	B1/500		G1/500
BVH	(80°-90°)	23.5	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9
2.5°	2524.6	2530.2	2527.9	2526.5	2530.7	2524.1	2510.6	2506.3	2499.8	2484.2	2458.0
5°	2429.8	2446.8	2445.8	2458.5	2479.5	2485.2	2479.1	2480.0	2467.8	2448.6	2405.1
7.5°	2266.1	2273.2	2277.0	2304.6	2343.1	2374.1	2400.3	2408.7	2403.1	2386.7	2330.4
10°	2097.3	2103.0	2111.9	2144.2	2193.1	2235.7	2285.3	2314.0	2326.2	2323.4	2260.6
12.5°	1952.5	1958.0	1969.7	2006.3	2064.6	2117.0	2189.2	2224.9	2254.0	2271.4	2203.8
15°	1822.6	1834.7	1845.9	1888.2	1953.3	2022.3	2103.9	2148.9	2193.9	2232.9	2153.6
17.5°	1721.2	1733.4	1740.0	1778.4	1847.8	1932.2	2028.0	2081.0	2137.2	2201.0	2103.9
20°	1662.6	1668.2	1665.4	1687.0	1749.4	1839.0	1952.5	2013.8	2081.8	2171.0	2054.2
22.5°	1646.2	1646.6	1636.2	1634.0	1674.3	1749.8	1871.7	1946.4	2029.8	2151.4	2011.5
25°	1686.0	1684.7	1656.5	1633.5	1637.7	1681.8	1793.9	1880.7	1986.3	2147.1	1978.6
27.5°	1774.7	1778.8	1737.1	1693.9	1651.4	1650.0	1734.8	1826.3	1950.5	2166.3	1964.6
30°	1898.9	1906.0	1861.4	1806.6	1726.4	1660.2	1711.9	1793.9	1928.5	2206.2	1962.3
32.5°	2035.0	2042.5	2008.7	1951.1	1845.9	1724.0	1727.8	1796.8	1927.6	2262.0	1978.2
35°	2179.8	2188.4	2171.0	2122.3	2005.5	1841.8	1788.8	1842.2	1958.0	2347.3	2020.9
37.5°	2341.7	2354.9	2359.6	2313.1	2188.4	1996.9	1888.6	1928.5	2027.0	2466.0	2099.2
40°	2574.8	2593.0	2591.6	2525.1	2397.9	2206.6	2042.9	2053.3	2134.4	2624.5	2224.4
42.5°	3021.2	3025.1	2908.3	2763.2	2628.7	2427.0	2224.9	2216.5	2282.7	2825.2	2408.7
45°	3589.1	3573.8	3314.0	3033.9	2869.8	2680.3	2461.7	2420.5	2470.7	3070.0	2639.4
47.5°	4060.5	4024.9	3696.6	3310.1	3125.0	2955.6	2739.9	2667.7	2695.3	3347.7	2937.8
50°	4224.2	4197.5	3925.4	3540.0	3366.4	3291.4	3082.2	2979.9	2987.4	3678.8	3287.2
52.5°	4189.1	4185.2	4003.8	3691.5	3592.5	3644.2	3567.2	3428.8	3355.7	4046.5	3664.2
55°	4106.1	4114.0	4048.4	3867.8	3851.0	3984.5	4200.8	4098.6	3871.0	4417.5	4053.9
57.5°	3817.6	3838.3	3982.7	4089.7	4266.9	4465.8	4711.0	4682.0	4425.9	4818.5	4517.4
60°	3075.6	3123.5	3510.9	4046.5	4695.1	5317.0	5426.7	5359.1	4998.1	5316.0	5129.4
62.5°	2155.0	2204.8	2665.3	3503.4	4624.7	6278.5	6706.2	6414.9	5819.7	6049.1	5921.6
65°	1153.8	1177.6	1529.4	2430.8	3904.4	6476.8	8576.0	8132.8	7120.8	6952.8	6599.3
67.5°	636.4	649.5	784.2	1227.3	2500.7	5703.5	9767.2	10102.1	8746.8	7554.5	6475.9
69°	575.5	587.6	675.8	929.6	1673.5	4715.7	9651.0	10621.3	9459.5	7494.9	6019.9
70°	562.8	574.0	653.3	856.8	1354.5	3887.0	9261.3	10488.6	9629.3	7281.6	5622.3
72.5°	506.5	518.7	595.6	769.6	1157.5	1937.9	7336.0	8868.2	8742.5	6313.5	4264.6
75°	472.3	483.6	613.9	753.7	1108.2	1226.4	4836.3	6535.9	6426.6	4416.5	2299.5
77.5°	202.1	201.1	284.7	637.8	1124.6	1187.5	2598.7	4083.0	3725.2	1887.7	660.4
80°	135.1	132.8	135.1	187.6	1031.3	1194.1	1361.5	2072.5	1565.4	481.2	325.5
82.5°	116.4	114.4	118.6	114.4	362.5	1362.9	1157.5	1102.1	744.3	273.4	161.3
85°	78.3	75.1	102.2	102.7	171.2	1210.9	1303.8	931.0	602.2	162.2	79.8
87.5°	37.4	36.6	59.5	72.6	100.4	492.0	1462.8	954.0	607.4	83.0	38.0
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°	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9	2473.9
2.5°	2450.0	2430.8	2412.0	2389.5	2366.1	2339.8	2326.6	2313.6	2310.3	2306.5	2293.4
5°	2382.5	2355.3	2308.4	2256.8	2202.4	2149.3	2109.0	2083.8	2064.6	2054.6	2037.3
7.5°	2295.2	2255.4	2173.2	2084.2	1992.8	1909.3	1837.0	1791.6	1748.3	1728.3	1705.2
10°	2212.3	2152.7	2025.1	1893.8	1762.5	1636.2	1517.6	1433.7	1359.1	1317.4	1287.8
12.5°	2140.9	2059.3	1882.5	1704.8	1524.7	1345.1	1167.3	1027.6	910.7	849.4	818.0
15°	2071.5	1973.0	1747.0	1521.4	1290.3	1045.8	812.4	653.8	557.1	518.7	505.6
17.5°	2008.7	1882.5	1611.0	1336.7	1048.3	752.7	545.9	458.7	421.6	408.9	404.7
20°	1940.7	1791.1	1469.9	1143.4	795.9	526.2	426.3	387.9	372.9	369.1	367.2
22.5°	1875.0	1701.0	1334.7	936.6	571.8	406.1	366.2	350.2	348.0	351.3	351.3
25°	1819.2	1620.5	1188.8	720.3	419.8	341.9	327.8	324.1	333.0	345.2	347.6
27.5°	1777.5	1554.2	1033.7	531.9	334.5	297.3	296.8	302.9	325.0	348.4	353.1
30°	1748.9	1491.4	867.6	383.6	280.5	261.6	269.3	282.3	314.6	348.0	356.9
32.5°	1734.4	1445.0	694.6	296.8	240.2	229.8	242.4	258.4	290.3	321.2	333.0
35°	1745.6	1410.7	531.3	247.6	212.0	204.0	217.1	232.6	251.4	264.5	273.4
37.5°	1787.8	1397.1	401.0	221.8	192.8	185.3	195.6	204.6	212.0	215.8	219.9
40°	1878.8	1411.6	321.2	208.6	181.9	172.6	176.8	180.1	184.7	188.6	190.4
42.5°	2012.9	1455.4	288.0	203.5	176.4	162.7	161.8	163.3	169.4	176.4	177.8
45°	2200.5	1532.3	285.6	206.8	173.5	154.8	150.6	152.4	161.8	172.6	174.5
47.5°	2440.2	1649.5	304.4	216.7	175.9	150.6	143.5	145.9	157.6	172.1	174.5
50°	2730.5	1813.1	335.8	231.2	186.2	151.5	141.2	142.6	154.8	170.7	173.0
52.5°	3073.4	2045.4	370.1	245.3	197.0	157.6	143.0	139.8	151.0	165.1	167.9
55°	3454.6	2343.1	405.3	258.0	202.5	165.1	146.9	136.0	144.0	155.7	158.1
57.5°	3922.6	2759.6	466.2	270.1	206.4	170.2	150.6	132.2	135.1	143.5	145.5
60°	4556.3	3348.6	573.6	290.3	214.8	172.1	150.1	128.9	126.2	130.9	131.7
62.5°	5315.6	3988.3	663.2	315.6	228.9	173.5	147.3	126.6	118.6	118.6	119.6
65°	5766.2	4159.5	613.5	336.7	240.6	172.1	144.0	124.3	113.0	107.8	108.3
67.5°	5384.1	3658.1	525.7	341.0	240.2	165.5	138.9	120.0	107.4	99.4	99.0
69°	4905.2	3156.3	486.3	329.8	228.9	157.2	132.2	115.4	103.1	94.7	94.3
70°	4519.2	2850.0	460.5	317.5	216.7	151.0	127.1	111.1	99.9	91.9	91.0
72.5°	3285.8	1867.6	393.5	272.9	178.6	126.6	109.7	97.6	89.1	84.4	83.5
75°	1641.9	890.6	319.4	221.4	136.9	101.3	90.0	81.6	77.3	76.5	75.9
77.5°	539.3	408.0	228.4	165.1	101.7	79.2	72.6	66.6	65.7	68.5	67.5
80°	296.4	237.3	144.9	109.3	69.4	58.1	57.3	54.0	55.4	60.0	59.1
82.5°	151.0	123.4	89.6	65.7	46.9	41.7	45.5	43.6	45.5	49.7	49.2
85°	74.7	67.5	56.7	39.9	30.9	26.8	32.3	33.8	34.8	38.0	38.0
87.5°	43.1	39.9	30.0	18.8	15.6	14.1	18.8	18.2	21.6	23.5	23.0
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)