

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: P270209

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270209  
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-SL3-7027  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 10794.3 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

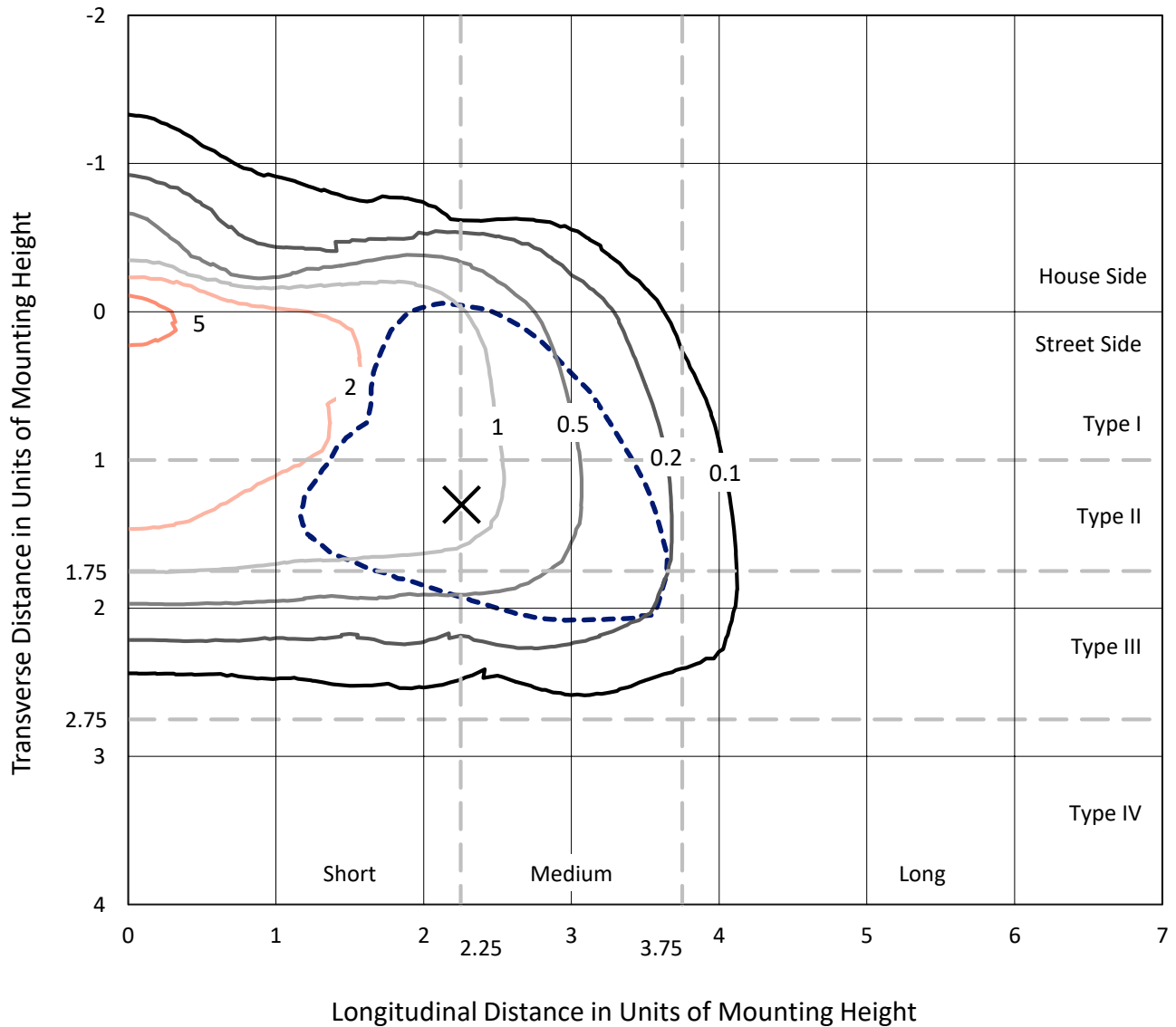
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

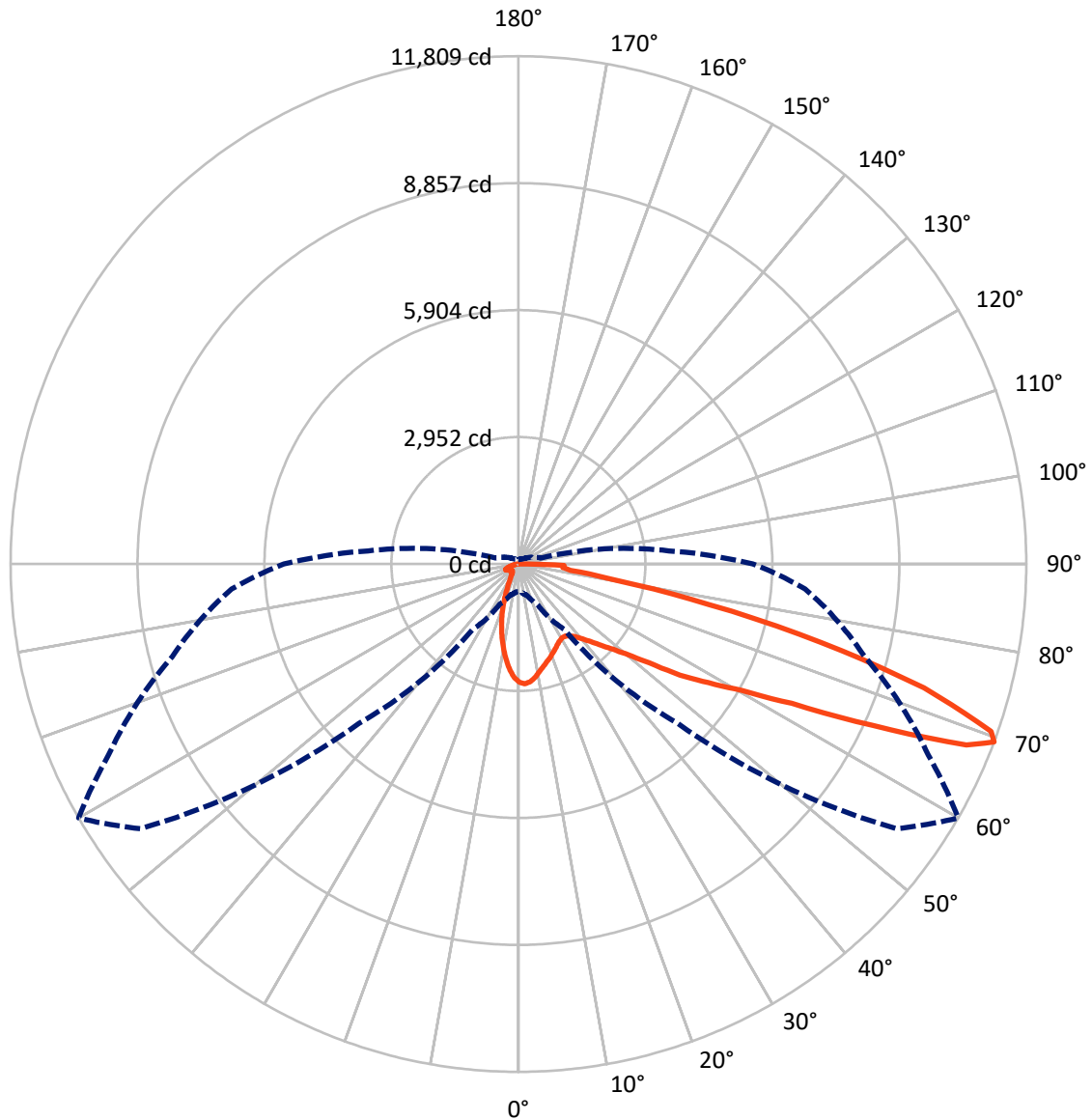
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	1535.7	0.0	1535.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	9258.6	0.0	9258.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	10794.3	0.0	10794.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.6	2.2
10°-20°	495.5	4.6
20°-30°	631.4	5.8
30°-40°	868.0	8.0
40°-50°	1408.4	13.0
50°-60°	2258.6	20.9
60°-70°	3006.1	27.8
70°-80°	1623.0	15.0
80°-90°	270.8	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°	10794.3	100.0
0°-180°	10794.3	100.0

**Coefficient of Utilization**



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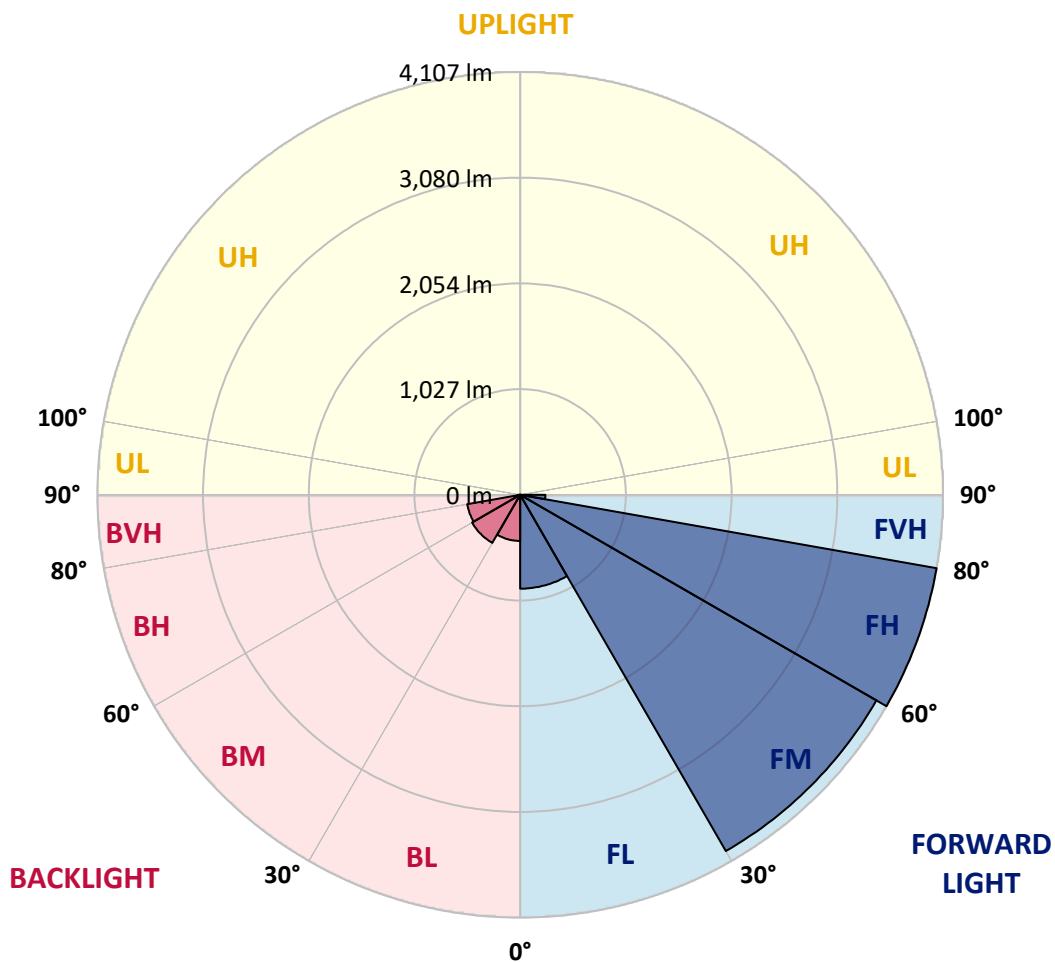
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	911.4	8.4			
FM	(30°-60°)	3995.4	37.0			
FH	(60°-80°)	4107.0	38.0			G2/5000
FVH	(80°-90°)	244.7	2.3			G3/500
BL	(0°-30°)	448.0	4.2	B1/500		
BM	(30°-60°)	539.5	5.0	B1/1000		
BH	(60°-80°)	522.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	26.1	0.2			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°	60°	65°	75°	85°
0°	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6
2.5°	2806.8	2813.1	2810.5	2809.0	2813.6	2806.3	2791.3	2786.5	2779.3	2762.0	2732.9
5°	2701.6	2720.2	2719.3	2733.4	2756.8	2763.0	2756.3	2757.3	2743.9	2722.5	2674.0
7.5°	2519.6	2527.4	2531.6	2562.3	2605.1	2639.5	2668.7	2678.0	2671.7	2653.6	2591.0
10°	2331.8	2338.1	2348.0	2384.0	2438.2	2485.7	2540.9	2572.7	2586.3	2583.2	2513.3
12.5°	2170.8	2177.0	2190.0	2230.8	2295.3	2353.7	2434.0	2473.8	2506.0	2525.2	2450.1
15°	2026.2	2039.8	2052.4	2099.2	2171.7	2248.4	2339.1	2389.2	2439.3	2482.6	2394.4
17.5°	1913.7	1927.3	1934.5	1977.3	2054.5	2148.2	2254.7	2313.7	2376.1	2447.2	2339.1
20°	1848.5	1854.7	1851.5	1875.7	1944.9	2044.5	2170.8	2239.0	2314.7	2413.7	2283.9
22.5°	1830.2	1830.7	1819.2	1816.7	1861.5	1945.5	2081.1	2163.9	2256.7	2391.7	2236.4
25°	1874.6	1873.0	1841.7	1816.2	1820.9	1869.8	1994.4	2091.0	2208.3	2387.2	2199.9
27.5°	1973.0	1977.8	1931.4	1883.4	1836.0	1834.3	1928.8	2030.4	2168.7	2408.4	2184.3
30°	2111.2	2119.1	2069.5	2008.6	1919.4	1845.8	1903.1	1994.4	2144.2	2452.8	2181.7
32.5°	2262.6	2270.8	2233.2	2169.1	2052.4	1916.9	1920.9	1997.7	2143.0	2514.8	2199.4
35°	2423.6	2433.0	2413.7	2359.5	2229.7	2047.6	1988.8	2048.1	2177.0	2609.8	2246.8
37.5°	2603.5	2618.1	2623.3	2571.7	2433.0	2220.3	2099.8	2144.2	2253.7	2741.6	2333.9
40°	2862.7	2883.0	2881.5	2807.5	2666.1	2453.4	2271.4	2282.9	2373.1	2918.0	2473.2
42.5°	3359.1	3363.3	3233.4	3072.4	2922.6	2698.4	2473.8	2464.3	2537.8	3141.2	2678.0
45°	3990.5	3973.4	3684.5	3373.1	3190.7	2979.9	2737.0	2691.1	2746.8	3413.3	2934.7
47.5°	4514.5	4474.9	4109.9	3680.3	3474.4	3286.1	3046.2	2965.9	2996.7	3721.9	3266.2
50°	4696.6	4666.9	4364.3	3935.7	3742.9	3659.4	3426.9	3313.2	3321.6	4090.2	3654.8
52.5°	4657.4	4653.3	4451.6	4104.1	3994.1	4051.5	3966.0	3812.1	3730.8	4498.9	4074.0
55°	4565.1	4574.0	4501.0	4300.2	4281.5	4430.1	4670.5	4556.8	4303.9	4911.4	4507.2
57.5°	4244.5	4267.4	4428.0	4547.0	4743.9	4965.1	5237.7	5205.5	4920.7	5357.2	5022.5
60°	3419.6	3472.8	3903.4	4498.9	5220.1	5911.4	6033.5	5958.4	5556.9	5910.5	5702.9
62.5°	2396.0	2451.3	2963.2	3895.1	5141.9	6980.4	7456.0	7132.2	6470.4	6725.4	6583.6
65°	1282.7	1309.3	1700.4	2702.6	4340.9	7201.1	9534.9	9042.2	7916.9	7730.3	7337.0
67.5°	707.5	722.1	871.9	1364.5	2780.3	6341.1	10859.4	11231.7	9724.7	8399.2	7199.9
69°	639.9	653.3	751.4	1033.5	1860.5	5243.0	10730.1	11808.8	10517.3	8333.0	6693.1
70°	625.7	638.2	726.4	952.7	1505.9	4321.7	10296.7	11661.3	10706.1	8095.7	6250.9
72.5°	563.1	576.7	662.2	855.6	1286.9	2154.6	8156.3	9859.7	9720.0	7019.5	4741.4
75°	525.1	537.5	682.5	837.9	1232.1	1363.5	5377.1	7266.7	7145.2	4910.3	2556.5
77.5°	224.8	223.7	316.6	709.1	1250.4	1320.2	2889.3	4539.7	4141.7	2098.8	734.2
80°	150.1	147.5	150.1	208.5	1146.6	1327.5	1513.7	2304.2	1740.6	535.0	361.8
82.5°	129.4	127.2	132.0	127.2	403.1	1515.4	1286.9	1225.4	827.5	303.9	179.4
85°	87.0	83.5	113.6	114.2	190.4	1346.3	1449.5	1035.0	669.5	180.4	88.7
87.5°	41.7	40.7	66.3	80.8	111.6	547.0	1626.3	1060.5	675.3	92.3	42.2
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°	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6	2750.6
2.5°	2724.0	2702.6	2681.7	2656.6	2630.6	2601.4	2586.8	2572.2	2568.6	2564.4	2549.7
5°	2648.9	2618.6	2566.5	2509.1	2448.7	2389.8	2344.8	2316.6	2295.3	2284.4	2265.0
7.5°	2551.8	2507.6	2416.4	2317.3	2215.6	2122.8	2042.4	1991.9	1943.9	1921.5	1896.0
10°	2459.6	2393.4	2251.5	2105.5	1959.6	1819.2	1687.3	1594.0	1511.0	1464.6	1431.9
12.5°	2380.4	2289.6	2093.1	1895.5	1695.2	1495.5	1297.8	1142.5	1012.6	944.3	909.4
15°	2303.2	2193.8	1942.3	1691.5	1434.5	1162.8	903.2	726.9	619.6	576.7	562.1
17.5°	2233.2	2093.1	1791.1	1486.1	1165.5	837.0	607.0	510.0	468.7	454.7	450.1
20°	2157.6	1991.4	1634.1	1271.2	884.9	585.1	473.9	431.2	414.6	410.3	408.3
22.5°	2084.6	1891.2	1484.0	1041.2	635.6	451.6	407.2	389.5	386.9	390.6	390.6
25°	2022.7	1801.6	1321.9	800.8	466.7	380.2	364.5	360.3	370.2	383.8	386.5
27.5°	1976.2	1728.0	1149.2	591.4	371.8	330.5	330.0	336.9	361.4	387.3	392.6
30°	1944.4	1658.1	964.7	426.5	311.8	291.0	299.2	313.9	349.9	386.9	396.8
32.5°	1928.2	1606.4	772.3	330.0	266.9	255.5	269.6	287.3	322.9	357.2	370.2
35°	1940.8	1568.5	590.7	275.3	235.6	226.8	241.5	258.6	279.6	294.0	303.9
37.5°	1987.7	1553.3	445.7	246.7	214.3	206.0	217.4	227.4	235.6	239.8	244.6
40°	2088.9	1569.5	357.2	232.0	202.3	191.9	196.5	200.2	205.4	209.7	211.7
42.5°	2237.9	1617.9	320.2	226.4	196.1	181.0	179.9	181.5	188.3	196.1	197.6
45°	2446.5	1703.5	317.6	230.0	193.0	172.0	167.4	169.5	179.9	191.9	193.9
47.5°	2713.1	1833.9	338.4	240.8	195.6	167.4	159.5	162.1	175.2	191.3	193.9
50°	3035.8	2015.8	373.3	257.1	207.0	168.4	156.9	158.6	172.0	189.8	192.3
52.5°	3417.0	2274.0	411.5	272.7	218.9	175.2	159.0	155.3	168.0	183.6	186.7
55°	3840.9	2605.1	450.5	286.7	225.2	183.6	163.2	151.3	160.1	173.2	175.7
57.5°	4361.4	3068.2	518.3	300.4	229.4	189.4	167.4	147.1	150.1	159.5	161.7
60°	5065.7	3723.0	637.6	322.9	238.8	191.3	166.8	143.4	140.2	145.4	146.6
62.5°	5909.9	4434.3	737.2	350.9	254.5	193.0	163.8	140.8	132.0	132.0	132.9
65°	6411.1	4624.6	682.1	374.5	267.4	191.3	160.1	138.2	125.7	120.0	120.5
67.5°	5986.0	4067.2	584.5	379.1	266.9	184.1	154.4	133.5	119.5	110.5	110.0
69°	5453.7	3509.3	540.7	366.6	254.5	174.7	147.1	128.3	114.8	105.3	104.8
70°	5024.5	3168.7	512.0	353.0	240.8	168.0	141.4	123.5	111.1	102.1	101.1
72.5°	3653.1	2076.3	437.5	303.4	198.6	140.8	122.0	108.4	99.1	93.9	92.9
75°	1825.5	990.2	355.1	246.1	152.3	112.6	100.2	90.6	86.1	85.0	84.5
77.5°	599.7	453.6	254.0	183.6	113.1	88.2	80.8	74.0	73.0	76.1	75.1
80°	329.6	263.8	161.2	121.5	77.2	64.7	63.6	59.9	61.5	66.7	65.7
82.5°	168.0	137.1	99.6	73.0	52.1	46.4	50.6	48.5	50.6	55.2	54.7
85°	83.0	75.1	63.2	44.3	34.5	29.7	36.0	37.5	38.5	42.2	42.2
87.5°	48.0	44.3	33.3	20.9	17.2	15.6	20.9	20.3	24.0	26.1	25.5
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)