

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: P200616

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200616  
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: GPC-AF-02-LED-E1-SL3-8030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 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: 10138 lumens  
Efficiency: N/A  
Efficacy: 89.7 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 - G3

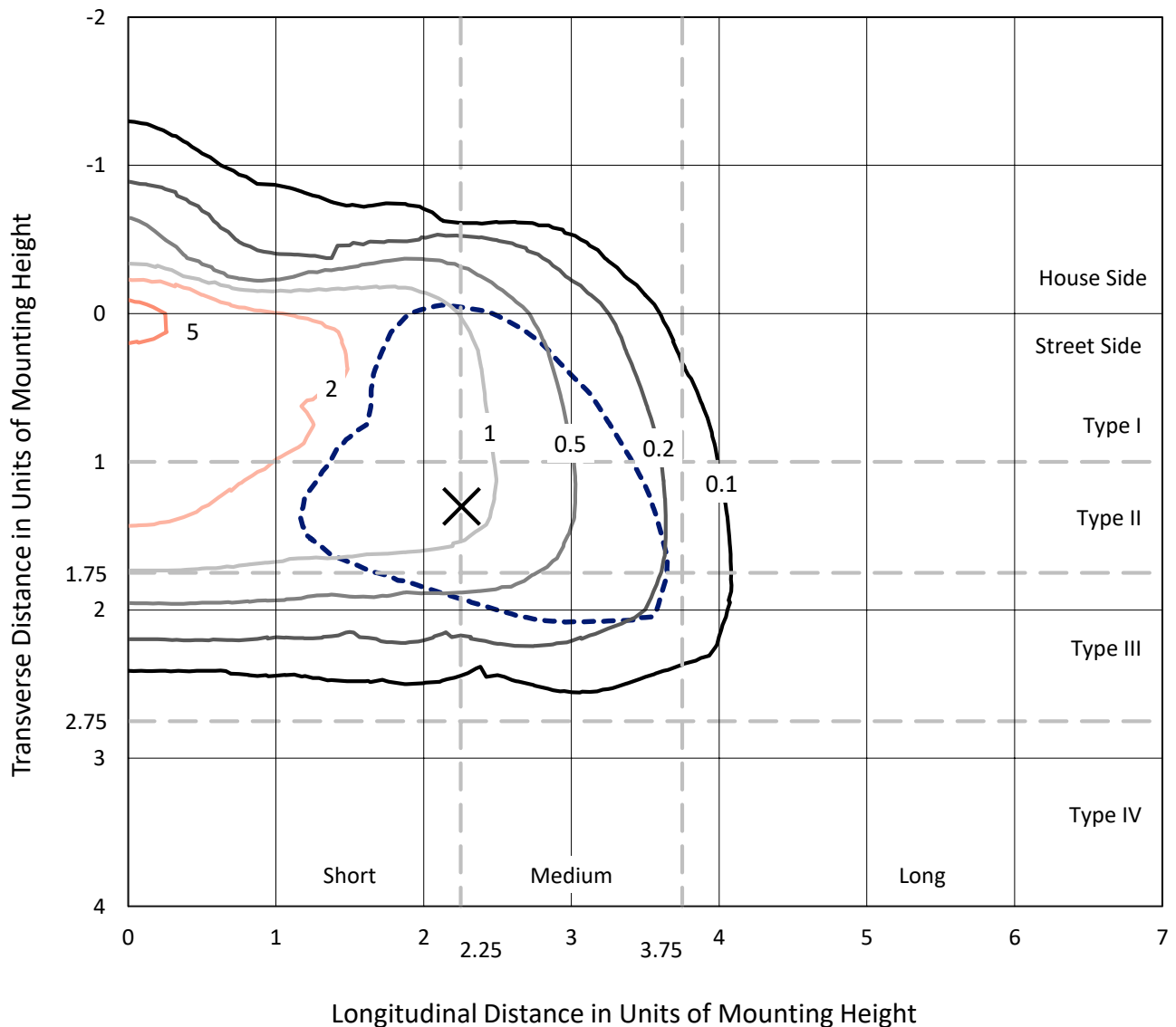
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

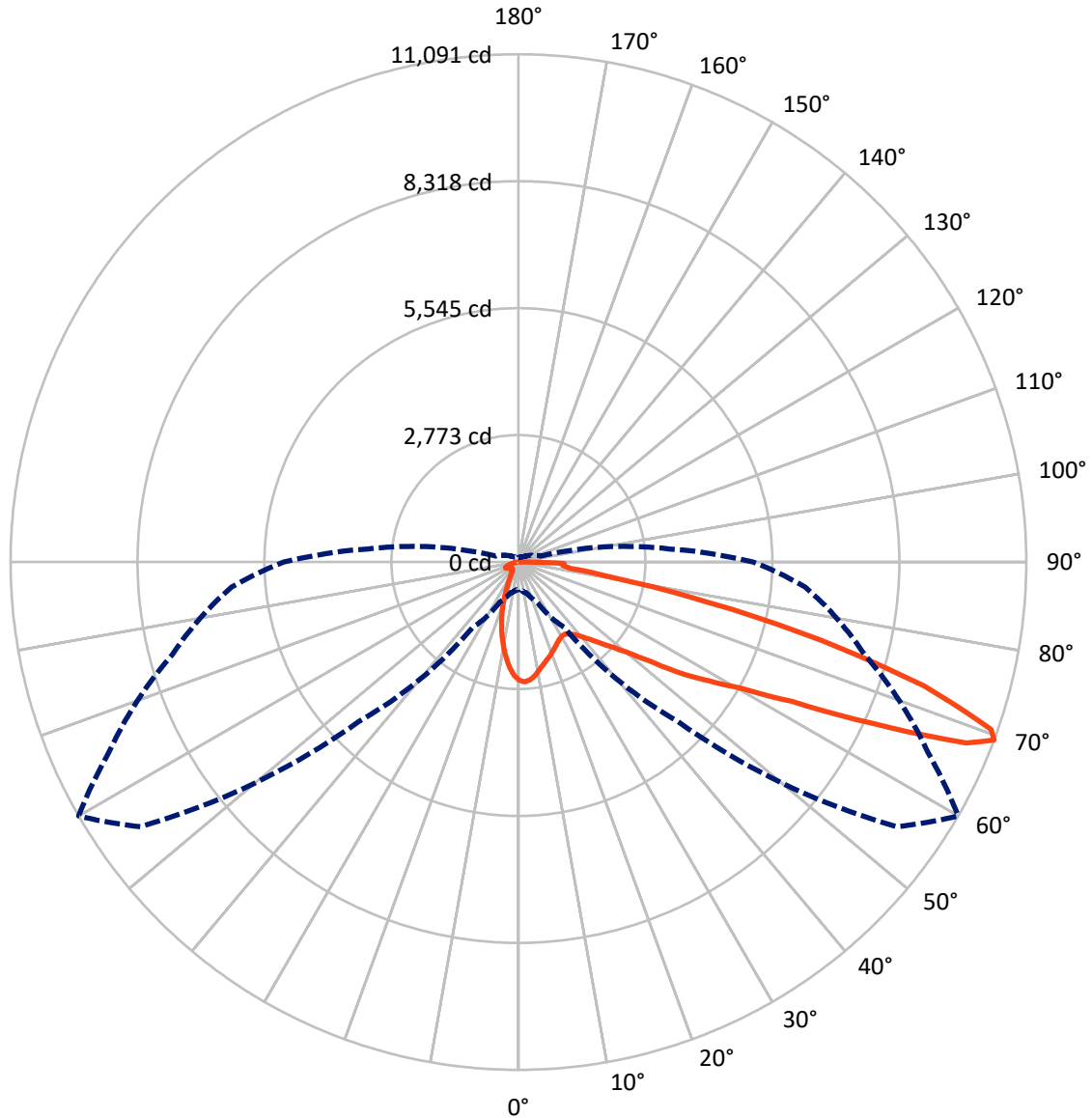
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1442.3	0.0	1442.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8695.7	0.0	8695.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	10138.0	0.0	10138.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.4	2.2
10°-20°	465.4	4.6
20°-30°	593.0	5.8
30°-40°	815.2	8.0
40°-50°	1322.7	13.0
50°-60°	2121.3	20.9
60°-70°	2823.3	27.8
70°-80°	1524.4	15.0
80°-90°	254.4	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°	10138.0	100.0
0°-180°	10138.0	100.0

**Coefficient of Utilization**



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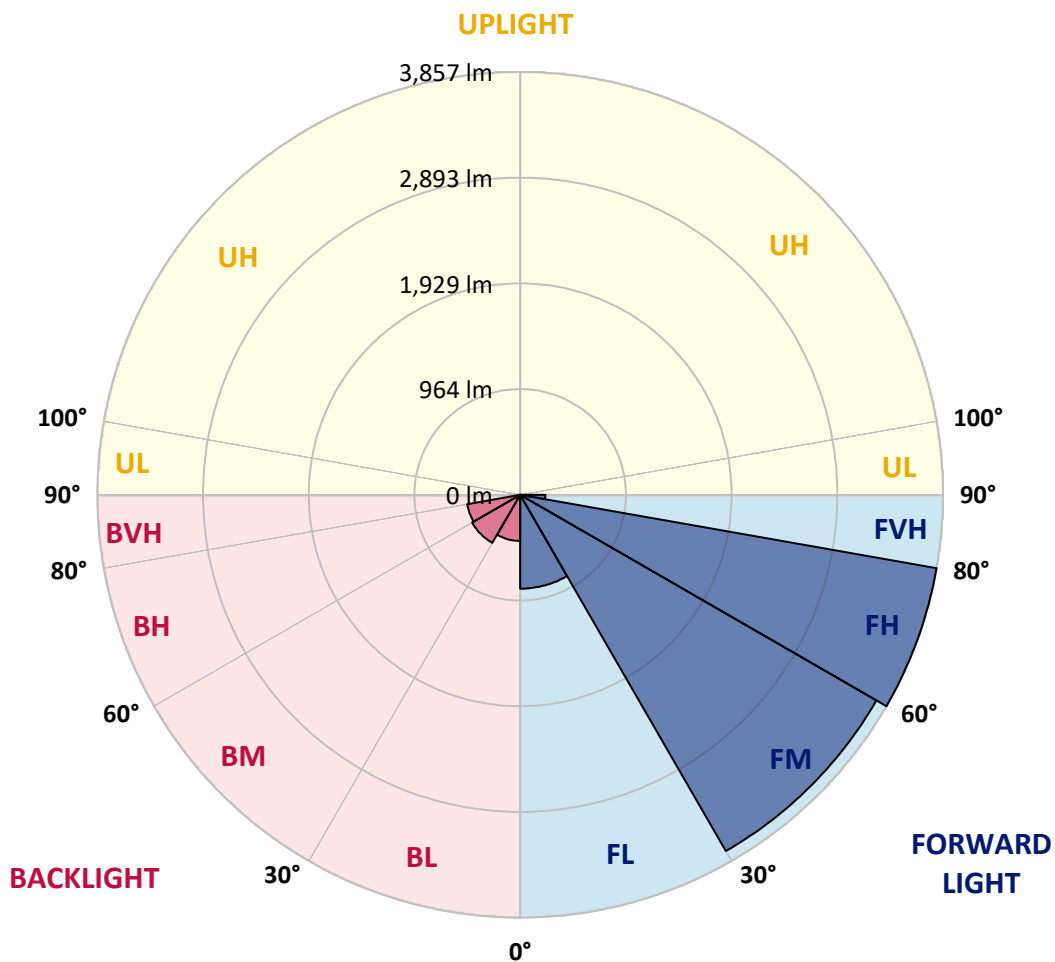
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.0	8.4			
FM	(30°-60°)	3752.5	37.0			
FH	(60°-80°)	3857.3	38.0			G2/5000
FVH	(80°-90°)	229.9	2.3			G3/500
BL	(0°-30°)	420.8	4.2	B1/500		
BM	(30°-60°)	506.7	5.0	B1/1000		
BH	(60°-80°)	490.3	4.8	B1/500		G1/500
BVH	(80°-90°)	24.5	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3
2.5°	2636.2	2642.1	2639.6	2638.2	2642.6	2635.7	2621.5	2617.1	2610.3	2594.1	2566.7
5°	2537.3	2554.9	2553.9	2567.2	2589.2	2595.1	2588.7	2589.7	2576.9	2556.9	2511.3
7.5°	2366.4	2373.7	2377.6	2406.5	2446.7	2479.0	2506.4	2515.2	2509.4	2492.2	2433.5
10°	2190.1	2195.9	2205.2	2239.0	2290.0	2334.5	2386.4	2416.3	2429.1	2426.1	2360.5
12.5°	2038.7	2044.6	2056.9	2095.1	2155.8	2210.6	2286.1	2323.3	2353.6	2371.8	2301.2
15°	1903.1	1915.8	1927.6	1971.6	2039.7	2111.7	2196.9	2243.9	2290.9	2331.6	2248.8
17.5°	1797.3	1810.0	1816.9	1857.0	1929.5	2017.7	2117.6	2172.9	2231.7	2298.3	2196.9
20°	1736.1	1742.0	1739.0	1761.6	1826.7	1920.2	2038.7	2102.9	2173.9	2267.0	2145.0
22.5°	1718.9	1719.4	1708.7	1706.2	1748.3	1827.2	1954.5	2032.4	2119.5	2246.4	2100.4
25°	1760.6	1759.1	1729.7	1705.7	1710.1	1756.2	1873.2	1963.8	2074.0	2242.0	2066.2
27.5°	1853.1	1857.5	1814.0	1768.9	1724.3	1722.9	1811.5	1907.0	2036.8	2262.1	2051.5
30°	1982.9	1990.3	1943.7	1886.4	1802.7	1733.6	1787.5	1873.2	2013.8	2303.7	2049.0
32.5°	2124.9	2132.8	2097.5	2037.3	1927.6	1800.2	1804.2	1876.1	2012.8	2362.0	2065.7
35°	2276.3	2285.1	2267.0	2216.0	2094.1	1923.2	1867.8	1923.7	2044.6	2451.1	2110.2
37.5°	2445.2	2458.9	2463.8	2415.3	2285.1	2085.3	1972.1	2013.8	2116.6	2575.0	2192.0
40°	2688.6	2707.7	2706.2	2636.7	2504.0	2304.2	2133.3	2144.0	2228.8	2740.5	2322.8
42.5°	3154.8	3158.7	3036.8	2885.5	2744.9	2534.3	2323.3	2314.5	2383.5	2950.1	2515.2
45°	3747.9	3731.7	3460.4	3168.1	2996.6	2798.8	2570.6	2527.5	2579.9	3205.8	2756.2
47.5°	4240.1	4202.8	3860.0	3456.5	3263.1	3086.3	2861.0	2785.6	2814.5	3495.7	3067.7
50°	4411.0	4383.1	4099.0	3696.5	3515.3	3436.9	3218.5	3111.7	3119.6	3841.4	3432.5
52.5°	4374.3	4370.3	4180.8	3854.7	3751.3	3805.2	3724.9	3580.4	3504.0	4225.4	3826.2
55°	4287.6	4295.9	4227.3	4038.8	4021.2	4160.7	4386.5	4279.7	4042.2	4612.8	4233.2
57.5°	3986.4	4007.9	4158.8	4270.4	4455.5	4663.2	4919.3	4889.0	4621.6	5031.5	4717.1
60°	3211.6	3261.6	3666.1	4225.4	4902.7	5552.0	5666.6	5596.1	5219.0	5551.1	5356.2
62.5°	2250.3	2302.2	2783.1	3658.3	4829.2	6556.0	7002.6	6698.5	6077.0	6316.5	6183.3
65°	1204.7	1229.7	1597.0	2538.3	4077.0	6763.1	8955.2	8492.4	7435.5	7260.2	6891.0
67.5°	664.6	678.3	818.8	1281.6	2611.2	5955.6	10199.1	10548.7	9133.4	7888.5	6762.2
69°	600.9	613.6	705.7	970.6	1747.4	4924.2	10077.6	11090.9	9877.8	7826.3	6286.2
70°	587.7	599.4	682.2	894.7	1414.3	4058.9	9670.7	10952.3	10055.1	7603.5	5870.9
72.5°	528.9	541.6	622.0	803.6	1208.6	2023.6	7660.3	9260.3	9129.0	6592.7	4453.1
75°	493.2	504.9	641.1	787.0	1157.2	1280.6	5050.1	6824.9	6710.7	4611.8	2401.1
77.5°	211.1	210.1	297.3	666.0	1174.4	1240.0	2713.6	4263.6	3889.9	1971.2	689.5
80°	141.0	138.6	141.0	195.9	1076.9	1246.8	1421.7	2164.1	1634.7	502.5	339.9
82.5°	121.5	119.5	123.9	119.5	378.6	1423.2	1208.6	1150.9	777.2	285.5	168.5
85°	81.8	78.4	106.8	107.3	178.8	1264.5	1361.4	972.1	628.8	169.4	83.3
87.5°	39.2	38.2	62.2	75.9	104.8	513.7	1527.5	996.1	634.2	86.7	39.7
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°	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3
2.5°	2558.3	2538.3	2518.7	2495.2	2470.7	2443.3	2429.5	2415.8	2412.4	2408.5	2394.8
5°	2487.8	2459.4	2410.4	2356.6	2299.8	2244.4	2202.3	2175.9	2155.8	2145.5	2127.4
7.5°	2396.7	2355.1	2269.4	2176.4	2080.9	1993.7	1918.3	1870.8	1825.7	1804.6	1780.7
10°	2310.0	2247.9	2114.6	1977.5	1840.4	1708.7	1584.8	1497.1	1419.2	1375.6	1344.8
12.5°	2235.6	2150.4	1965.8	1780.2	1592.1	1404.5	1218.9	1073.0	951.1	886.9	854.1
15°	2163.1	2060.3	1824.2	1588.7	1347.2	1092.1	848.2	682.7	581.8	541.6	527.9
17.5°	2097.5	1965.8	1682.2	1395.7	1094.5	786.0	570.0	479.0	440.3	427.0	422.6
20°	2026.5	1870.3	1534.8	1194.0	831.1	549.5	445.2	405.0	389.3	385.4	383.5
22.5°	1957.9	1776.2	1393.8	978.0	597.0	424.1	382.5	365.8	363.4	366.8	366.8
25°	1899.7	1692.0	1241.5	752.2	438.3	357.0	342.3	338.4	347.7	360.4	362.9
27.5°	1856.1	1623.0	1079.4	555.4	349.2	310.5	310.0	316.4	339.4	363.9	368.8
30°	1826.2	1557.3	906.0	400.6	292.9	273.3	281.1	294.8	328.6	363.4	372.7
32.5°	1811.0	1508.9	725.3	310.0	250.7	240.0	253.2	269.8	303.1	335.5	347.7
35°	1822.8	1473.1	554.9	258.6	221.4	213.0	226.7	242.9	262.5	276.2	285.5
37.5°	1866.8	1458.9	418.7	231.6	201.3	193.4	204.2	213.5	221.4	225.3	229.7
40°	1961.9	1474.1	335.5	217.9	190.0	180.2	184.6	188.1	193.0	196.9	198.8
42.5°	2101.9	1519.6	300.7	212.5	184.1	169.9	169.0	170.4	176.8	184.1	185.6
45°	2297.8	1599.9	298.2	216.0	181.2	161.6	157.2	159.2	169.0	180.2	182.2
47.5°	2548.1	1722.4	317.8	226.3	183.6	157.2	149.9	152.3	164.5	179.7	182.2
50°	2851.2	1893.3	350.6	241.4	194.4	158.2	147.4	148.9	161.6	178.3	180.7
52.5°	3209.2	2135.7	386.4	256.1	205.7	164.5	149.4	145.9	157.7	172.4	175.3
55°	3607.3	2446.7	423.1	269.4	211.6	172.4	153.3	142.0	150.3	162.6	165.0
57.5°	4096.1	2881.6	486.8	282.1	215.5	177.8	157.2	138.1	141.0	149.9	151.8
60°	4757.7	3496.7	598.9	303.1	224.3	179.7	156.7	134.7	131.7	136.6	137.6
62.5°	5550.6	4164.6	692.5	329.6	239.0	181.2	153.8	132.2	123.9	123.9	124.9
65°	6021.2	4343.4	640.6	351.6	251.2	179.7	150.3	129.8	118.0	112.6	113.1
67.5°	5622.1	3819.9	549.0	356.0	250.7	172.9	145.0	125.4	112.1	103.8	103.3
69°	5122.1	3295.9	507.8	344.3	239.0	164.1	138.1	120.5	107.7	98.9	98.4
70°	4719.0	2976.1	480.9	331.5	226.3	157.7	132.7	116.1	104.3	96.0	95.0
72.5°	3431.0	1950.1	410.9	285.0	186.6	132.2	114.6	101.9	93.0	88.2	87.2
75°	1714.5	930.0	333.5	231.2	143.0	105.8	94.0	85.2	80.8	79.8	79.3
77.5°	563.2	426.1	238.5	172.4	106.3	82.8	75.9	69.5	68.6	71.5	70.5
80°	309.5	247.8	151.3	114.1	72.5	60.7	59.7	56.3	57.8	62.7	61.7
82.5°	157.7	128.8	93.5	68.6	49.0	43.6	47.5	45.5	47.5	51.9	51.4
85°	77.9	70.5	59.3	41.6	32.3	27.9	33.8	35.3	36.2	39.7	39.7
87.5°	45.1	41.6	31.3	19.6	16.2	14.7	19.6	19.1	22.5	24.5	24.0
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)