

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: P270030

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11598.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

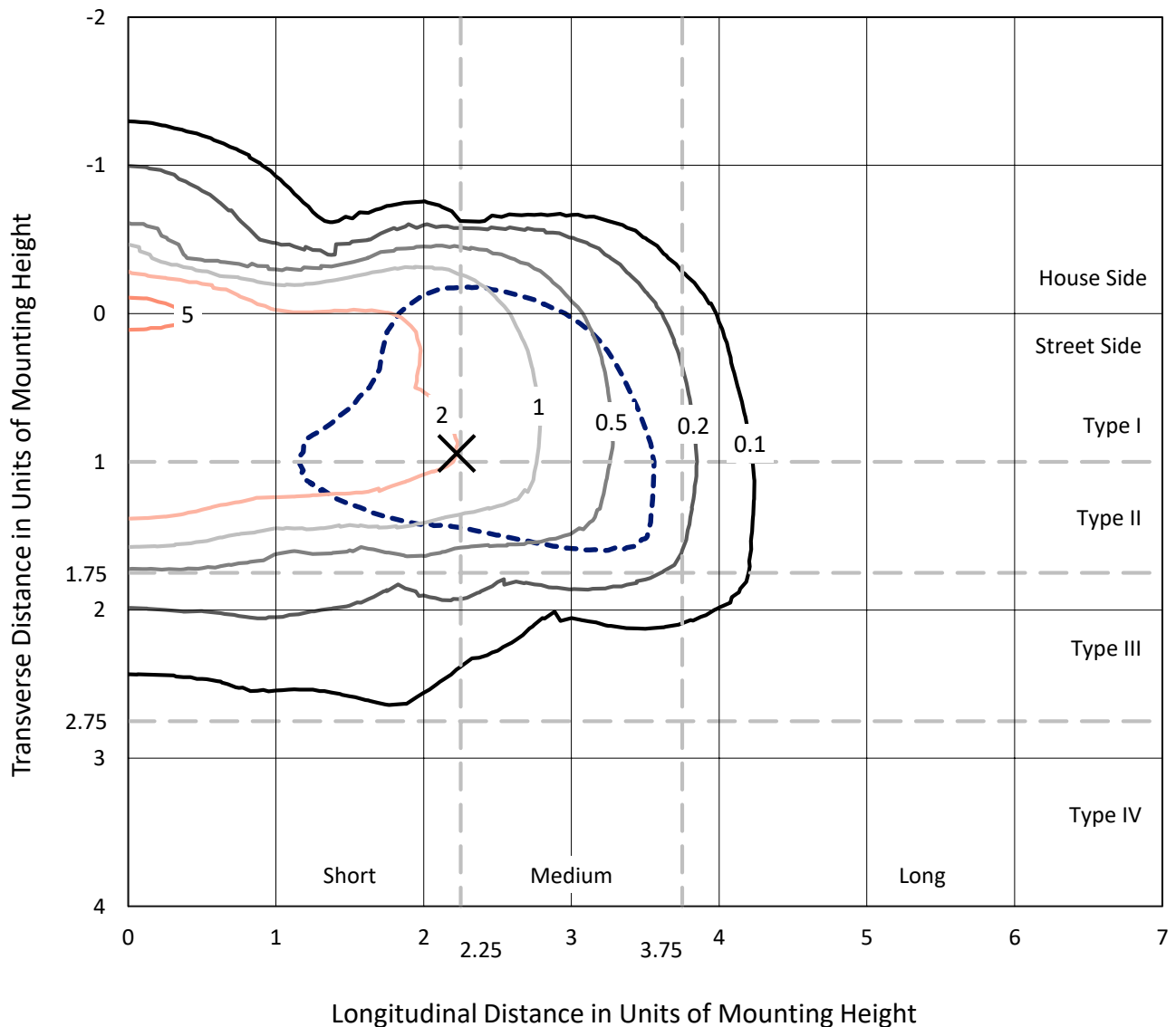
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

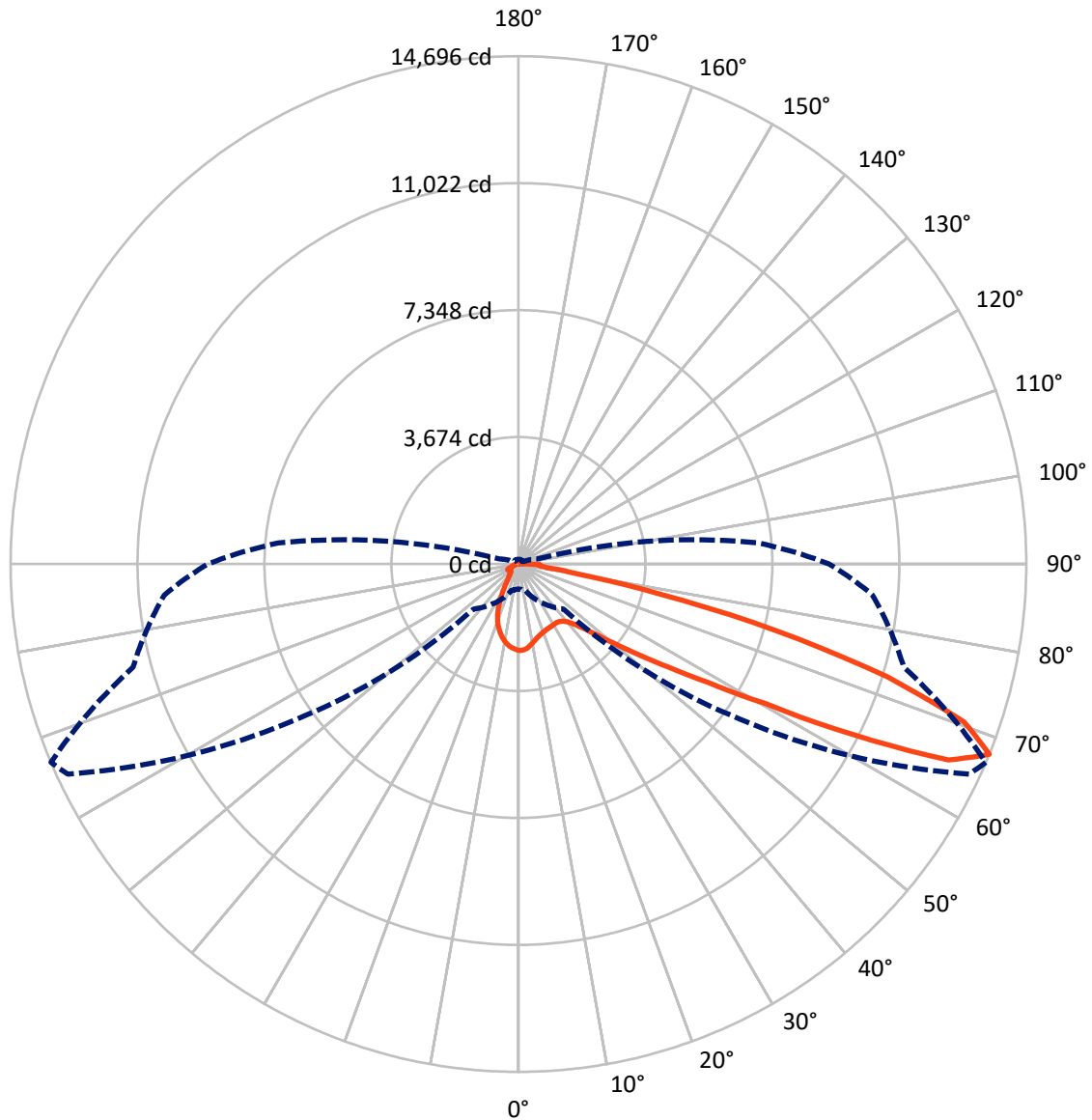
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.7	0.0	1921.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9676.5	0.0	9676.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	11598.2	0.0	11598.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.8
10°-20°	493.8	4.3
20°-30°	669.4	5.8
30°-40°	951.6	8.2
40°-50°	1592.1	13.7
50°-60°	2518.8	21.7
60°-70°	3208.6	27.7
70°-80°	1680.7	14.5
80°-90°	269.6	2.3
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°	11598.2	100.0
0°-180°	11598.2	100.0

Coefficient of Utilization



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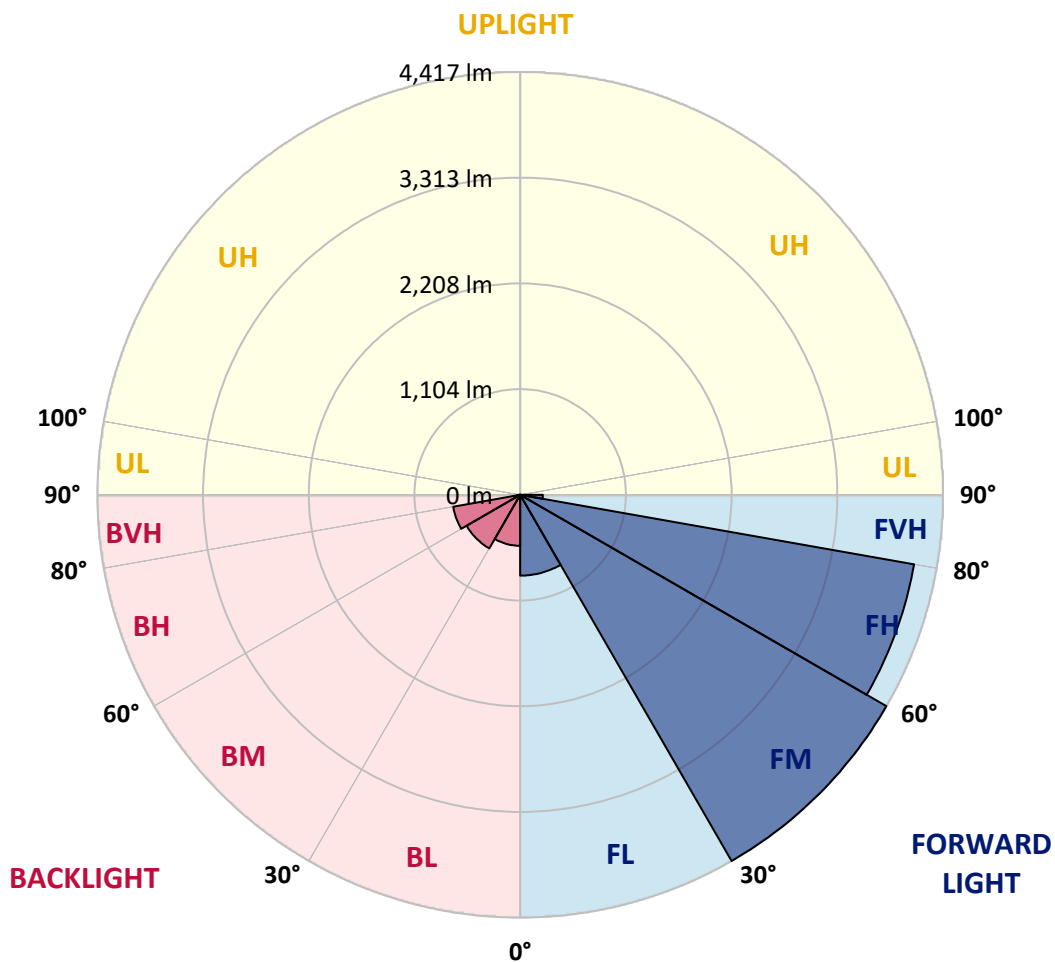
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.1	7.3			
FM	(30°-60°)	4416.8	38.1			
FH	(60°-80°)	4178.6	36.0			G2/5000
FVH	(80°-90°)	237.0	2.0			G3/500
BL	(0°-30°)	532.6	4.6	B2/1000		
BM	(30°-60°)	645.7	5.6	B1/1000		
BH	(60°-80°)	710.8	6.1	B2/1000		G2/1000
BVH	(80°-90°)	32.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7
2.5°	2398.7	2402.7	2415.4	2423.4	2459.4	2474.8	2485.7	2496.6	2498.2	2503.3	2498.2
5°	2147.0	2155.7	2179.1	2205.3	2275.1	2330.2	2387.9	2447.9	2458.8	2497.6	2508.5
7.5°	1952.0	1949.9	1969.3	2000.6	2072.2	2148.2	2249.4	2369.0	2392.5	2480.0	2522.4
10°	1809.6	1807.8	1828.5	1861.1	1929.2	2001.2	2115.6	2279.2	2312.3	2452.0	2535.5
12.5°	1704.4	1705.0	1725.6	1761.5	1830.7	1903.5	2019.5	2192.3	2234.7	2419.3	2549.2
15°	1634.6	1639.1	1655.8	1694.2	1761.5	1834.2	1948.1	2127.0	2174.5	2393.7	2564.7
17.5°	1611.2	1618.6	1624.3	1652.3	1710.2	1782.7	1894.3	2079.0	2129.3	2375.8	2578.3
20°	1632.8	1641.6	1630.7	1640.3	1677.0	1741.1	1851.9	2041.3	2092.7	2355.8	2580.0
22.5°	1726.2	1734.2	1702.1	1674.1	1671.7	1710.7	1817.1	2011.6	2064.8	2341.0	2580.7
25°	1890.4	1895.5	1841.6	1776.5	1713.0	1699.9	1792.5	1991.0	2047.5	2327.8	2569.7
27.5°	2091.7	2095.7	2033.9	1937.7	1810.3	1725.6	1783.9	1979.0	2037.8	2316.4	2551.5
30°	2336.4	2355.3	2272.4	2151.1	1965.2	1801.6	1801.0	1972.7	2026.9	2297.0	2515.4
32.5°	2586.8	2594.9	2537.7	2414.7	2174.0	1935.5	1849.2	1977.2	2024.2	2273.5	2469.7
35°	2840.9	2851.2	2814.0	2715.0	2459.4	2131.7	1942.9	2004.1	2041.8	2265.4	2437.6
37.5°	3169.7	3183.5	3132.0	3017.5	2806.6	2397.5	2099.1	2071.6	2096.1	2288.3	2427.8
40°	3689.6	3683.3	3532.9	3362.4	3186.3	2737.9	2322.1	2185.9	2200.3	2362.2	2457.7
42.5°	4294.7	4279.3	4020.3	3752.5	3603.8	3149.6	2617.2	2384.5	2381.5	2507.3	2562.3
45°	4777.5	4764.9	4531.5	4201.6	4082.5	3618.7	2998.7	2680.2	2659.1	2737.9	2755.6
47.5°	5038.9	5039.4	4905.0	4635.7	4632.7	4214.7	3488.8	3108.0	3071.3	3108.6	3089.7
50°	4947.3	4959.4	4945.1	4859.2	5134.9	4996.0	4128.9	3704.5	3630.7	3667.3	3594.7
52.5°	4504.6	4520.1	4604.7	4736.4	5346.1	5940.2	5069.1	4445.7	4360.0	4346.8	4266.1
55°	3719.9	3738.8	3911.5	4269.0	5170.5	6574.5	6552.7	5390.5	5253.8	5129.9	5095.5
57.5°	2564.0	2595.6	2873.5	3404.2	4602.5	6766.2	8319.6	6737.6	6459.5	6026.0	6034.1
60°	1445.4	1481.9	1809.6	2291.8	3456.3	6557.9	9663.5	8777.7	8190.8	7075.6	7135.1
62.5°	919.1	958.6	1207.4	1592.2	2073.8	5436.9	10214.4	11613.9	10868.8	8369.2	8427.7
65°	744.1	761.3	878.5	1314.3	1506.0	3275.5	9796.2	13950.4	13672.5	10011.4	9739.2
67.5°	726.4	732.1	792.8	1103.3	1444.1	1841.0	7813.9	14387.3	14695.6	11544.7	10285.4
70°	717.7	737.8	893.4	1053.0	1383.0	1552.8	4695.7	13189.6	13676.3	11945.8	9558.3
72.5°	348.4	347.1	449.5	952.4	1558.0	1610.7	2412.5	10672.0	11160.5	10349.5	7854.5
75°	280.8	256.7	245.3	348.9	1498.0	1663.2	1537.4	7343.3	7696.7	6938.9	4828.4
77.5°	266.5	238.0	217.8	218.5	633.1	1763.9	1302.4	4064.2	4167.1	3134.2	1322.9
80°	220.8	194.5	180.2	203.0	306.5	1679.8	1408.2	1839.4	1687.8	769.8	440.3
82.5°	153.3	139.5	135.6	170.5	245.3	1197.1	1637.5	988.3	828.7	385.6	271.6
85°	97.7	83.5	92.6	124.1	191.0	552.5	1686.7	770.3	612.6	244.8	153.3
87.5°	45.2	36.7	45.8	68.6	124.7	190.5	1604.9	865.3	630.9	129.3	96.7
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°	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7	2501.7
2.5°	2502.9	2492.0	2483.5	2467.4	2449.7	2432.5	2417.1	2397.5	2391.8	2386.7	2394.7
5°	2510.9	2500.0	2468.5	2419.3	2365.0	2314.2	2263.2	2219.7	2192.9	2178.0	2186.6
7.5°	2522.9	2507.3	2442.2	2351.9	2254.0	2164.8	2072.7	1999.0	1944.7	1918.9	1926.3
10°	2533.7	2503.9	2397.5	2262.0	2119.0	1986.4	1841.0	1721.1	1631.9	1584.9	1596.3
12.5°	2538.3	2490.8	2335.2	2150.0	1953.8	1759.3	1545.4	1365.9	1237.7	1190.9	1181.1
15°	2542.9	2476.0	2266.7	2022.4	1754.2	1479.1	1179.4	964.3	857.9	834.4	829.3
17.5°	2544.0	2450.2	2188.8	1883.9	1520.2	1145.6	806.5	669.7	670.3	708.0	712.6
20°	2532.1	2411.9	2094.5	1711.8	1240.0	792.1	553.6	530.2	616.5	710.9	722.3
22.5°	2504.6	2360.9	1987.5	1511.0	919.1	521.6	428.4	454.2	565.7	681.2	694.3
25°	2469.7	2299.2	1861.1	1278.3	608.5	372.8	359.2	390.7	466.1	543.4	550.8
27.5°	2422.2	2226.0	1719.3	1011.9	395.3	307.1	316.4	337.5	368.3	402.6	406.0
30°	2360.9	2138.5	1567.7	737.8	298.5	276.3	289.4	300.8	314.0	333.5	335.2
32.5°	2290.7	2054.5	1412.1	509.6	264.8	260.1	270.5	276.3	286.6	298.5	299.8
35°	2231.7	1974.4	1250.8	360.3	250.4	248.2	255.1	257.4	267.1	280.2	281.3
37.5°	2198.1	1909.2	1084.4	290.5	240.7	237.3	241.4	241.4	255.1	274.5	277.3
40°	2200.3	1873.1	918.0	262.6	232.8	228.2	228.8	228.8	246.6	267.6	269.4
42.5°	2262.7	1882.3	770.3	251.6	226.6	221.3	218.5	220.3	235.0	248.8	250.0
45°	2409.1	1946.8	632.0	244.8	220.3	218.5	212.2	211.6	217.3	223.7	223.7
47.5°	2649.2	2074.5	538.3	240.2	215.1	214.4	207.1	199.7	199.1	201.3	201.3
50°	3040.0	2294.1	475.4	235.0	211.6	207.1	198.4	187.0	183.1	184.7	184.7
52.5°	3625.6	2685.8	451.3	228.2	204.2	196.8	187.0	175.6	172.1	172.7	172.7
55°	4393.7	3287.5	447.9	220.3	196.2	184.2	176.2	167.5	163.6	164.7	164.7
57.5°	5332.2	4119.7	509.0	207.6	185.3	171.5	167.1	161.2	158.5	160.2	159.5
60°	6473.2	5208.7	754.9	194.5	174.5	160.2	160.2	155.5	153.3	155.0	154.4
62.5°	7787.6	6459.5	1061.5	184.7	163.0	150.9	153.3	150.9	148.7	149.8	149.3
65°	8953.2	7274.7	994.1	177.2	151.5	142.4	146.5	145.3	143.5	144.6	144.2
67.5°	8987.1	6972.6	558.2	169.3	140.8	133.8	139.5	139.0	137.8	139.0	138.3
70°	8020.3	5887.6	314.5	154.4	129.3	123.5	131.5	131.0	129.8	132.1	131.5
72.5°	6425.8	4272.5	230.0	136.2	117.8	112.6	121.8	121.2	121.2	124.7	123.0
75°	3697.7	2198.5	183.7	116.7	105.8	101.8	109.9	110.4	111.5	116.2	112.6
77.5°	1054.2	685.1	149.8	99.0	91.0	89.2	97.2	98.4	99.0	104.2	99.5
80°	391.8	315.8	123.5	83.0	74.4	74.9	82.4	84.1	84.6	89.8	84.1
82.5°	250.0	208.1	100.2	64.0	58.3	57.9	67.0	69.2	69.2	69.8	66.4
85°	145.9	124.7	75.5	46.4	41.2	39.4	49.8	53.8	52.0	50.9	48.6
87.5°	97.7	85.8	46.4	25.7	22.3	21.2	29.1	32.0	30.9	29.1	27.5
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)