

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: P200253

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-01-LED-E1-AFL-7050-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5269 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

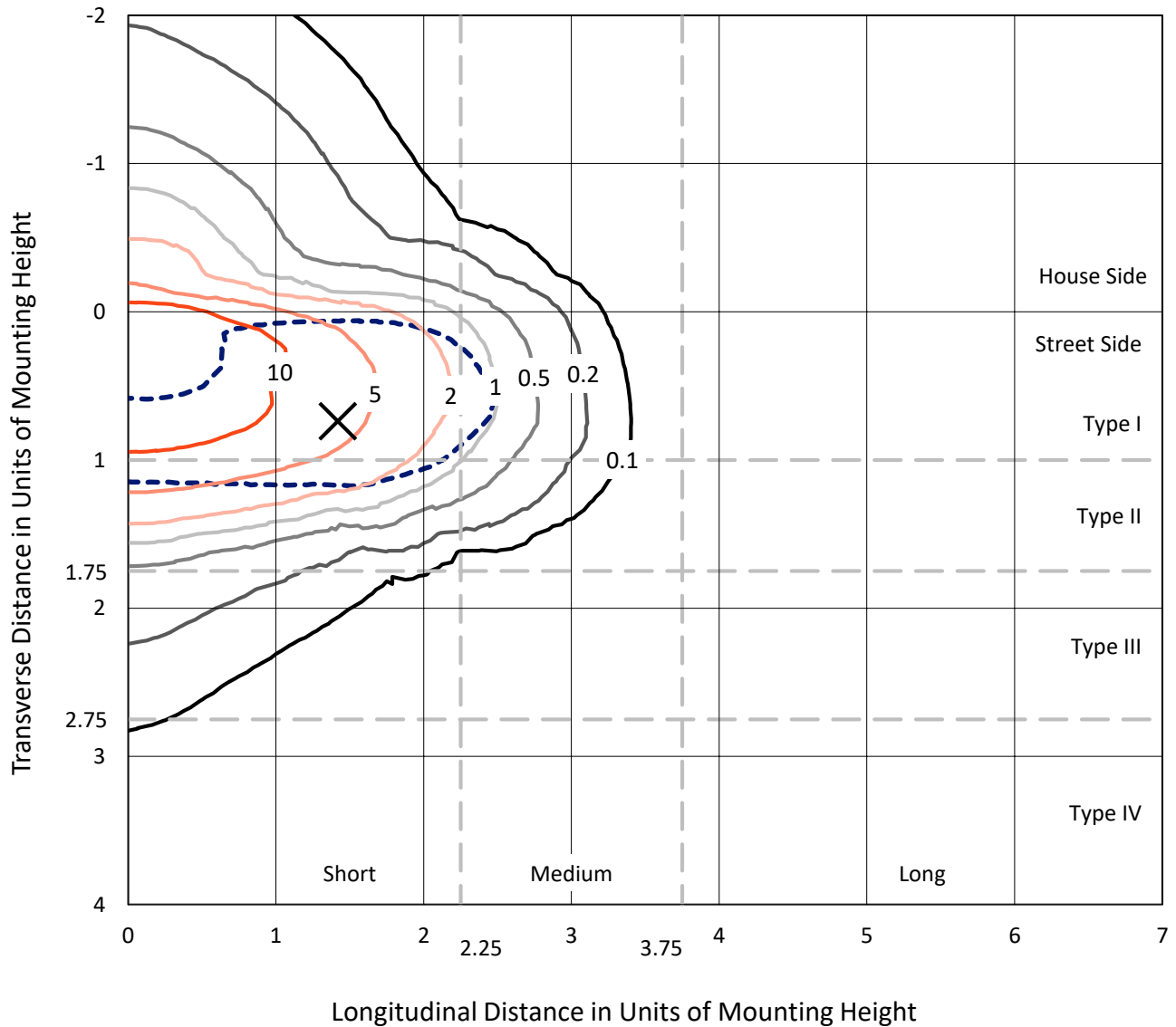
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

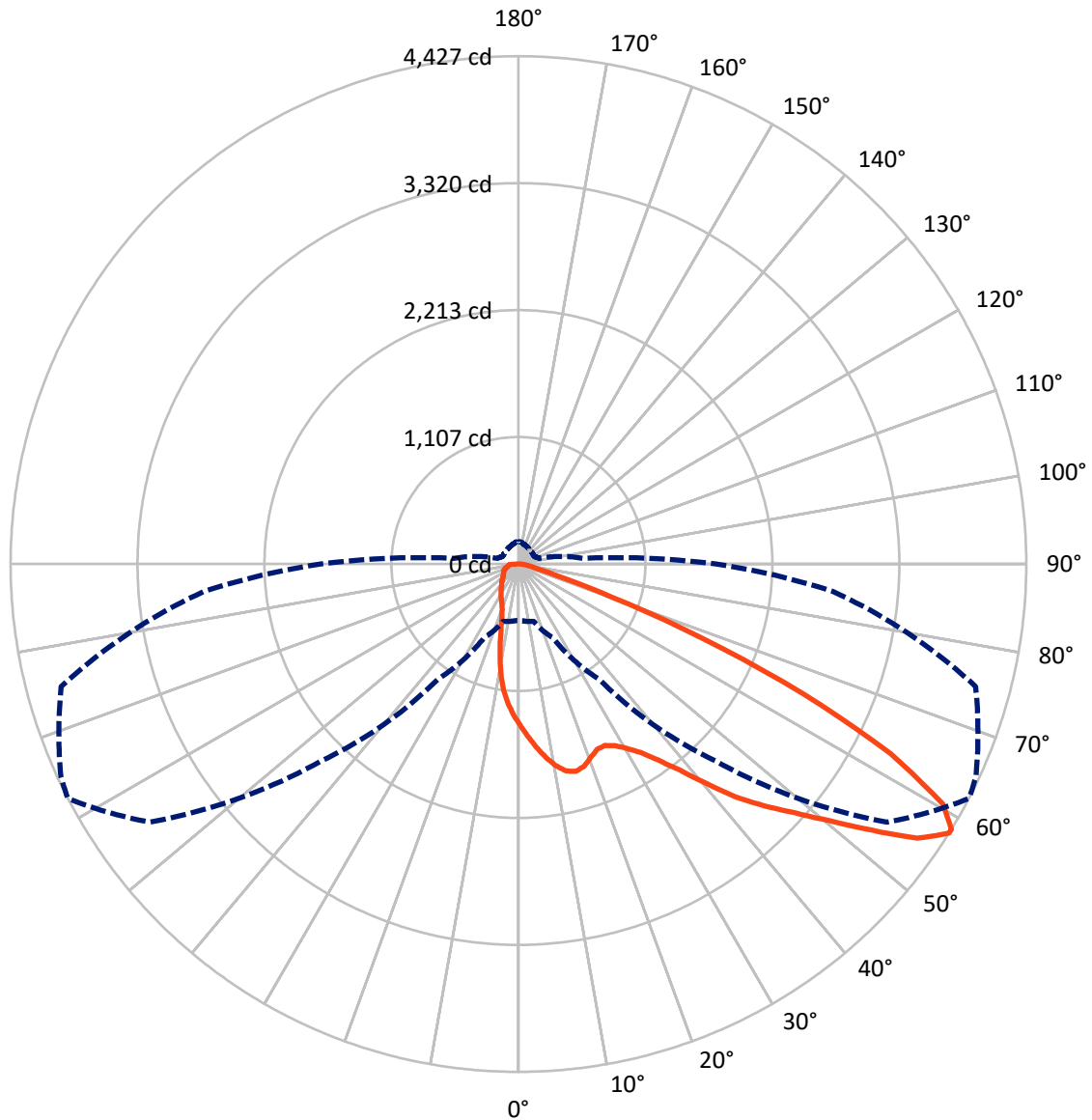
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	803.5	0.0	803.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	4465.5	0.0	4465.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	5269.0	0.0	5269.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	2.4
10°-20°	320.0	6.1
20°-30°	517.2	9.8
30°-40°	821.1	15.6
40°-50°	1201.4	22.8
50°-60°	1256.6	23.8
60°-70°	742.4	14.1
70°-80°	209.1	4.0
80°-90°	75.9	1.4
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°	5269.0	100.0
0°-180°	5269.0	100.0



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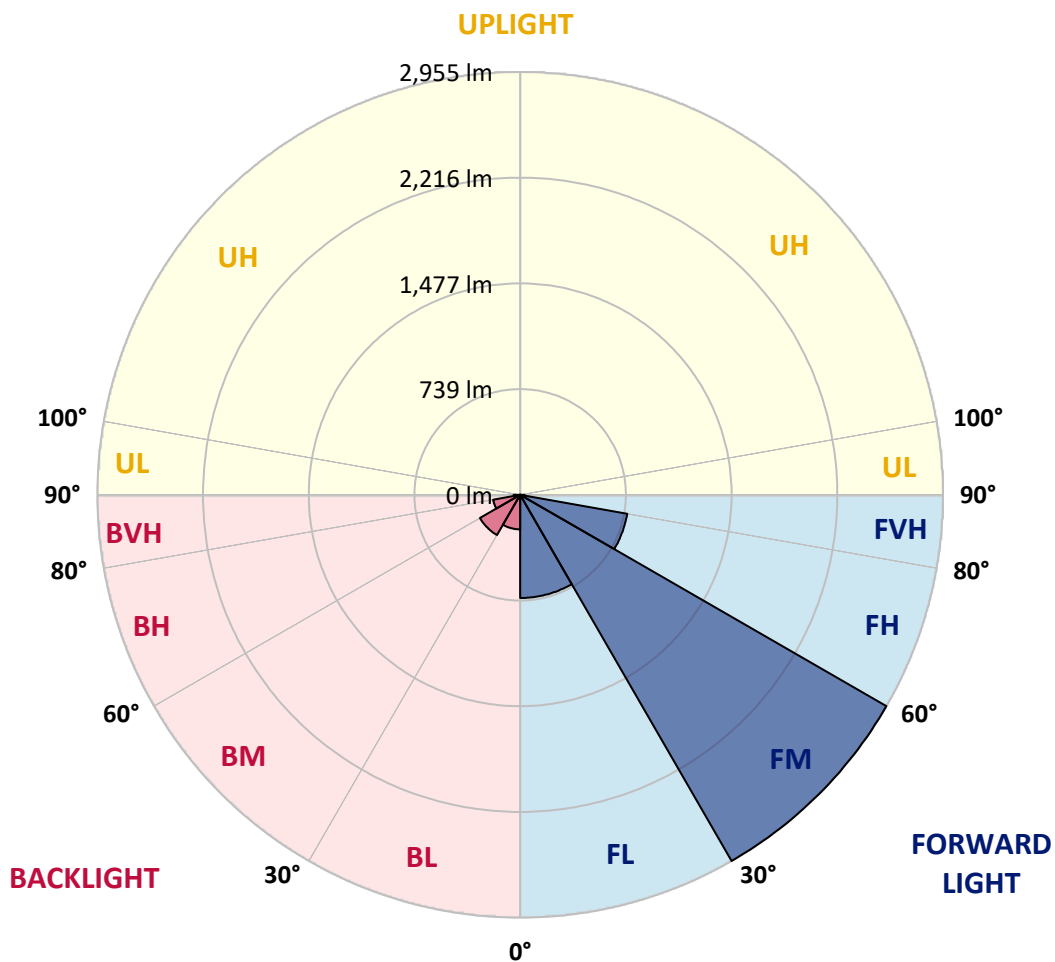
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.9	13.7			
FM (30°-60°)	2954.8	56.1			
FH (60°-80°)	759.8	14.4			G1/1800
FVH (80°-90°)	30.0	0.6			G1/100
BL (0°-30°)	241.5	4.6	B1/500		
BM (30°-60°)	324.3	6.2	B1/1000		
BH (60°-80°)	191.7	3.6	B1/500		G1/500
BVH (80°-90°)	46.0	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6
2.5°	1599.3	1586.4	1578.2	1571.0	1561.6	1541.5	1514.5	1497.4	1488.7	1459.1	1424.2
5°	1756.1	1744.7	1736.3	1726.6	1709.7	1678.2	1634.6	1599.8	1582.7	1523.7	1453.7
7.5°	1719.4	1724.1	1738.8	1764.3	1786.2	1781.9	1743.0	1698.8	1676.2	1594.1	1487.9
10°	1498.1	1506.3	1531.6	1591.4	1688.2	1787.4	1817.7	1787.2	1764.3	1663.8	1523.2
12.5°	1453.7	1453.4	1455.4	1471.3	1528.9	1668.6	1820.2	1850.9	1837.3	1730.3	1559.1
15°	1471.8	1472.3	1470.8	1477.5	1495.4	1550.7	1744.2	1875.5	1885.2	1797.3	1596.4
17.5°	1519.4	1518.2	1512.5	1512.5	1518.9	1540.5	1654.9	1852.7	1897.3	1856.6	1629.1
20°	1599.3	1593.6	1578.5	1564.6	1557.7	1569.3	1618.2	1800.1	1876.2	1908.5	1656.2
22.5°	1696.1	1691.6	1667.1	1637.3	1613.2	1613.0	1637.0	1754.2	1839.8	1957.4	1679.0
25°	1821.1	1814.0	1777.5	1729.8	1687.7	1671.5	1678.2	1751.9	1819.9	2010.5	1699.3
27.5°	1968.0	1954.9	1911.7	1843.0	1781.0	1748.4	1738.8	1792.4	1838.0	2076.2	1727.6
30°	2146.2	2131.0	2075.7	1986.1	1898.6	1845.2	1824.6	1864.1	1898.1	2156.3	1773.0
32.5°	2348.9	2327.0	2263.0	2164.3	2049.2	1967.8	1934.3	1958.8	1985.9	2252.9	1829.8
35°	2629.0	2602.9	2510.4	2374.2	2244.2	2132.3	2078.7	2096.6	2122.9	2396.8	1912.0
37.5°	2820.0	2808.4	2746.9	2618.8	2477.4	2348.6	2265.8	2276.2	2291.1	2576.6	2017.2
40°	2818.3	2823.0	2824.3	2825.5	2729.2	2605.9	2516.9	2505.9	2503.0	2774.1	2136.7
42.5°	2677.1	2696.5	2759.0	2885.8	2944.4	2887.8	2806.2	2774.6	2759.0	3006.9	2263.5
45°	2461.0	2471.4	2588.6	2836.2	3054.5	3166.9	3105.1	3005.9	2977.6	3220.7	2368.7
47.5°	2349.6	2361.0	2434.7	2704.7	3053.3	3392.4	3428.2	3239.1	3188.5	3406.8	2459.5
50°	2084.4	2108.2	2201.0	2475.9	2941.9	3496.2	3765.9	3517.0	3412.3	3588.0	2550.6
52.5°	1597.3	1634.1	1738.0	2099.8	2659.3	3444.8	4036.0	3853.9	3706.1	3775.5	2628.8
55°	1007.6	1034.9	1122.2	1483.0	2127.3	3177.6	4138.5	4218.4	4086.9	3953.2	2696.5
57.5°	547.8	560.0	592.7	818.8	1383.7	2586.8	3989.2	4425.8	4371.2	4104.0	2747.6
58°	490.3	498.5	518.8	709.6	1227.2	2425.3	3922.9	4426.6	4399.3	4126.1	2751.6
60°	363.7	359.5	341.4	404.9	683.1	1675.5	3522.5	4249.4	4329.6	4153.2	2732.2
62.5°	319.6	309.4	272.4	268.2	332.2	771.9	2695.2	3640.1	3829.4	3998.8	2614.6
65°	300.2	289.3	241.7	226.3	239.7	326.5	1587.7	2730.0	2967.4	3530.9	2313.9
67.5°	285.8	271.7	222.1	201.0	202.0	215.9	636.4	1719.4	1986.6	2680.9	1799.8
70°	271.9	256.5	205.4	181.1	175.4	170.7	253.1	860.7	1103.1	1693.4	1147.5
72.5°	257.0	241.9	190.8	165.5	154.3	138.7	165.2	352.1	491.8	801.2	520.5
75°	235.5	221.8	176.2	151.6	135.7	114.9	124.8	183.9	220.6	319.1	250.8
77.5°	208.9	197.7	159.8	140.2	120.3	93.3	96.0	127.5	141.4	182.6	149.1
80°	150.1	154.1	142.2	126.0	107.2	75.7	73.7	93.0	100.5	117.4	97.0
82.5°	105.4	107.7	117.6	103.0	88.6	59.5	54.3	65.5	70.0	77.2	52.4
85°	72.7	70.2	80.6	71.7	64.0	39.7	37.2	44.4	47.1	47.9	27.0
87.5°	43.7	43.7	46.6	38.5	34.5	20.6	20.1	25.3	27.0	25.8	14.9
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°	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6	1399.6
2.5°	1403.3	1385.7	1348.2	1318.2	1280.3	1240.8	1218.7	1195.2	1179.0	1167.4	1186.0
5°	1414.0	1378.0	1300.6	1227.2	1146.0	1061.7	997.7	938.1	896.7	870.9	895.2
7.5°	1430.9	1375.5	1252.2	1126.7	981.0	840.6	715.1	636.4	590.5	567.9	582.1
10°	1450.2	1371.6	1195.4	990.5	782.1	605.1	511.4	479.6	469.2	465.0	466.9
12.5°	1466.3	1363.1	1125.7	825.7	587.3	477.9	450.8	450.1	452.3	452.8	453.5
15°	1477.8	1350.7	1022.2	654.0	469.7	435.4	433.9	438.4	442.6	444.4	445.4
17.5°	1485.4	1325.2	905.4	517.1	420.8	414.8	418.3	424.0	428.5	429.7	430.7
20°	1484.7	1287.7	766.2	431.2	394.3	394.3	400.2	404.7	404.9	403.4	404.2
22.5°	1477.0	1236.3	631.2	385.6	370.7	374.9	380.9	376.6	359.3	347.9	348.6
25°	1464.1	1175.1	515.6	356.5	348.8	356.3	354.6	322.8	298.0	286.8	286.8
27.5°	1452.7	1102.6	426.8	331.2	327.0	336.2	305.4	276.6	266.2	261.0	259.3
30°	1444.5	1024.5	367.5	306.9	306.4	299.7	265.0	257.0	255.3	251.1	249.6
32.5°	1446.5	945.3	329.5	285.6	287.3	256.5	245.6	247.4	245.9	241.4	239.4
35°	1462.9	870.1	304.7	266.2	261.0	231.7	234.2	237.4	236.9	230.7	228.8
37.5°	1492.1	798.9	288.3	250.1	227.8	219.3	223.3	228.3	227.0	222.8	221.3
40°	1522.9	731.9	274.9	237.4	208.2	210.9	214.4	217.1	218.3	219.6	218.6
42.5°	1552.9	662.0	258.5	224.5	200.0	203.0	204.4	207.2	213.9	218.6	218.3
45°	1570.8	596.2	241.7	206.2	193.5	195.3	194.3	199.7	207.9	215.6	215.9
47.5°	1590.6	545.1	228.3	189.3	187.3	188.6	185.6	191.0	198.5	207.9	208.9
50°	1614.7	514.6	217.6	175.9	178.9	178.9	178.1	183.1	193.5	204.4	206.4
52.5°	1642.0	508.6	208.7	166.2	170.5	170.2	170.9	178.4	189.8	200.5	202.2
55°	1675.3	524.8	199.0	159.0	162.3	163.3	165.7	174.2	183.9	196.0	196.8
57.5°	1714.0	557.5	191.3	153.3	154.8	158.0	162.0	169.7	180.1	193.5	194.3
58°	1720.4	564.5	190.1	152.8	153.3	157.1	161.5	169.0	179.4	194.0	194.8
60°	1720.7	587.5	187.3	150.6	147.6	153.8	158.8	166.2	178.1	195.8	197.5
62.5°	1659.6	587.3	185.3	147.4	141.7	149.4	155.1	163.8	176.9	200.0	203.5
65°	1461.4	533.7	175.9	142.4	137.0	145.4	151.8	162.0	180.4	218.3	220.6
67.5°	1143.1	437.4	158.3	135.5	130.8	141.4	149.9	161.8	184.1	222.6	224.0
70°	755.8	327.3	138.9	127.5	124.3	136.7	150.9	170.2	179.9	213.6	209.7
72.5°	392.3	229.8	123.3	117.6	116.9	132.5	165.2	169.2	175.7	201.0	196.0
75°	205.9	159.5	109.7	106.7	107.9	131.5	195.0	164.7	170.2	192.3	201.7
77.5°	126.0	128.8	98.0	96.8	99.2	128.5	194.8	159.0	162.3	176.9	187.3
80°	84.4	104.5	89.1	89.3	91.1	117.6	174.9	150.1	152.6	167.2	177.9
82.5°	53.3	61.8	80.9	85.1	82.9	97.0	148.6	136.7	140.2	191.3	202.2
85°	27.0	38.7	70.2	81.9	74.7	68.0	120.6	119.8	121.6	138.0	144.2
87.5°	12.4	21.3	54.8	71.5	56.3	42.4	87.6	88.8	95.8	98.0	98.0
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)