

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: P200575

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200575
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-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5322 lumens
Efficiency: N/A
Efficacy: 90.2 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

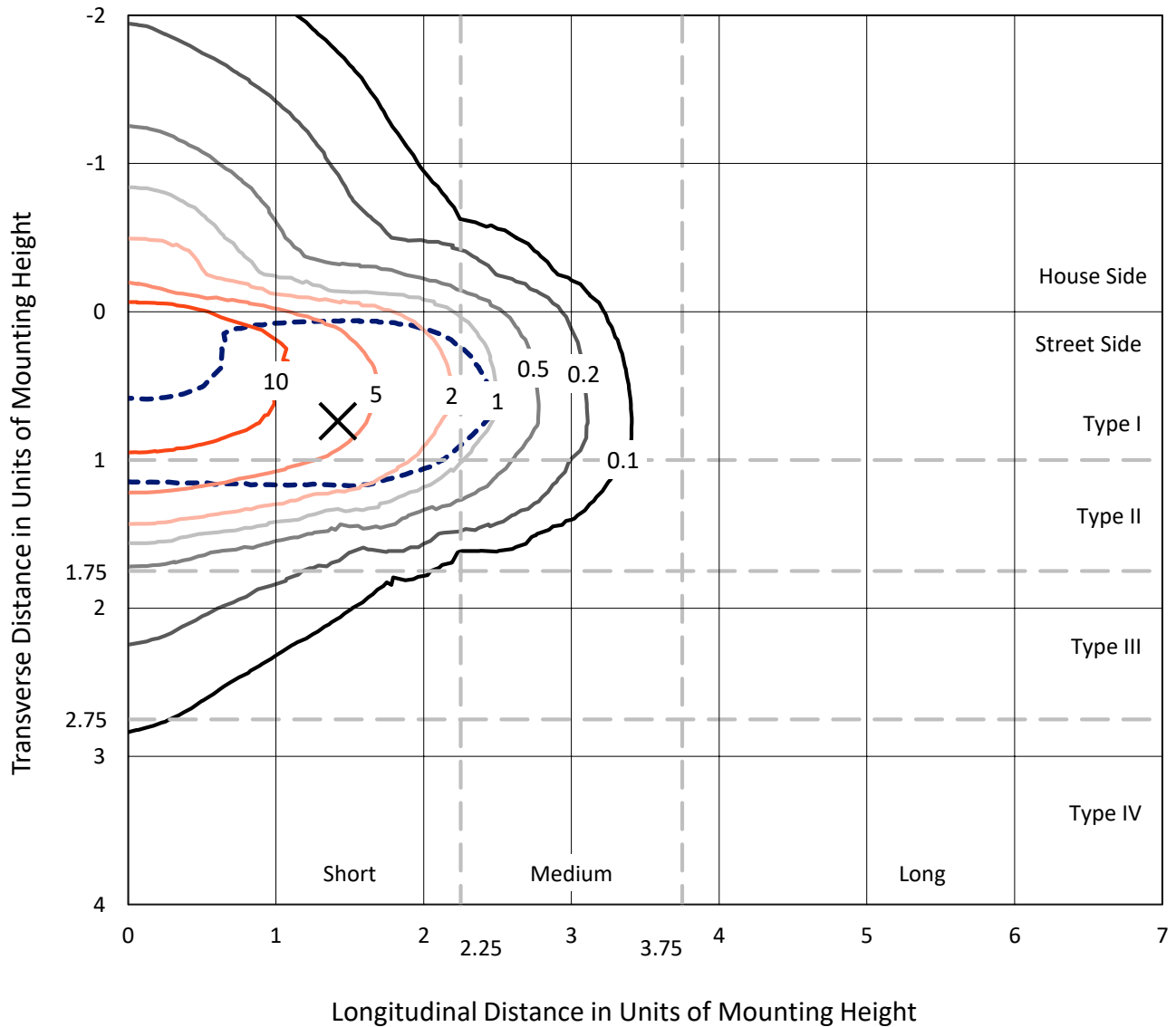
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

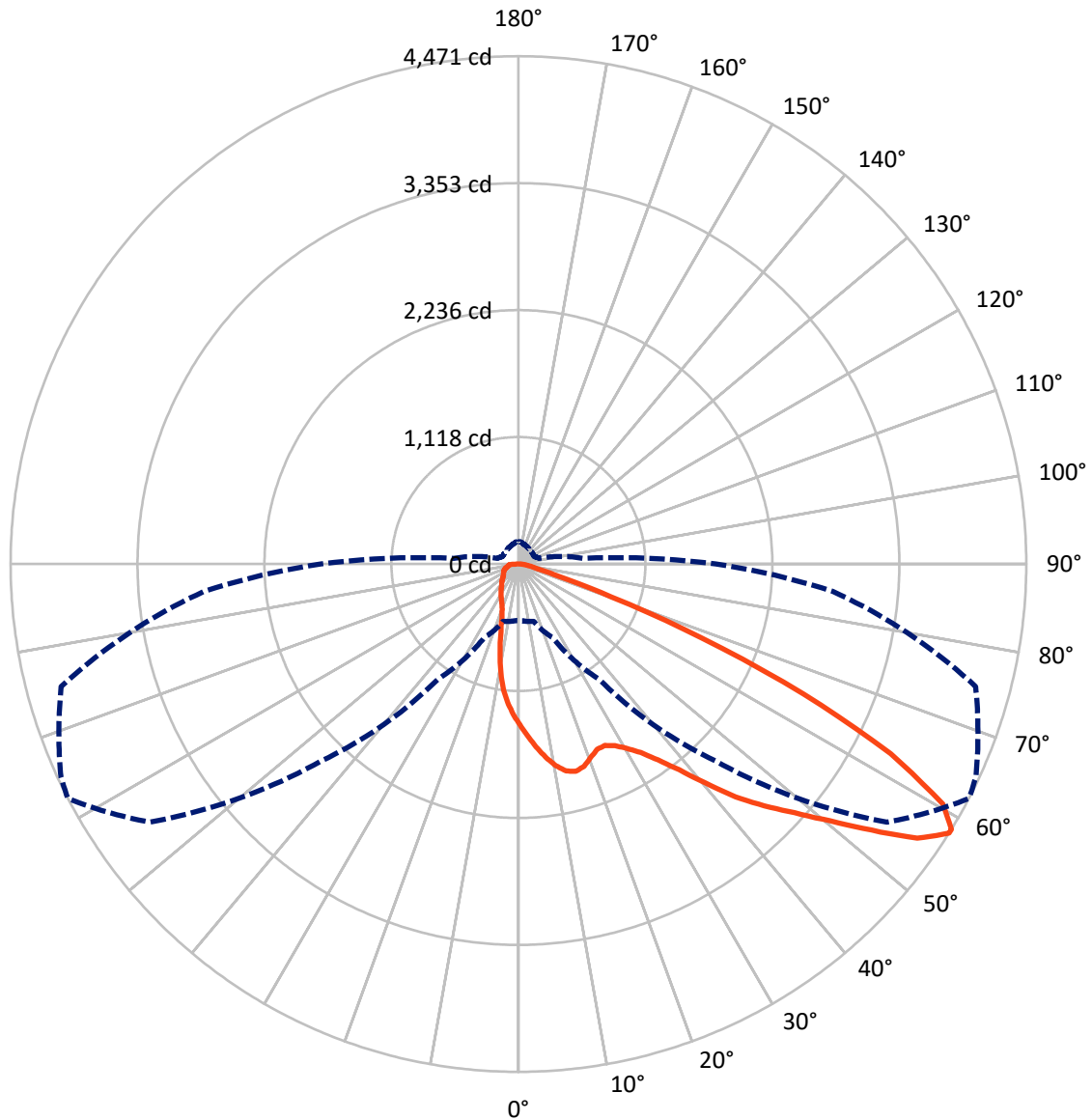
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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
House Side	Lumens	811.6	0.0	811.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4510.4	0.0	4510.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	5322.0	0.0	5322.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	2.4
10°-20°	323.2	6.1
20°-30°	522.4	9.8
30°-40°	829.4	15.6
40°-50°	1213.5	22.8
50°-60°	1269.2	23.8
60°-70°	749.9	14.1
70°-80°	211.2	4.0
80°-90°	76.7	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°	5322.0	100.0
0°-180°	5322.0	100.0



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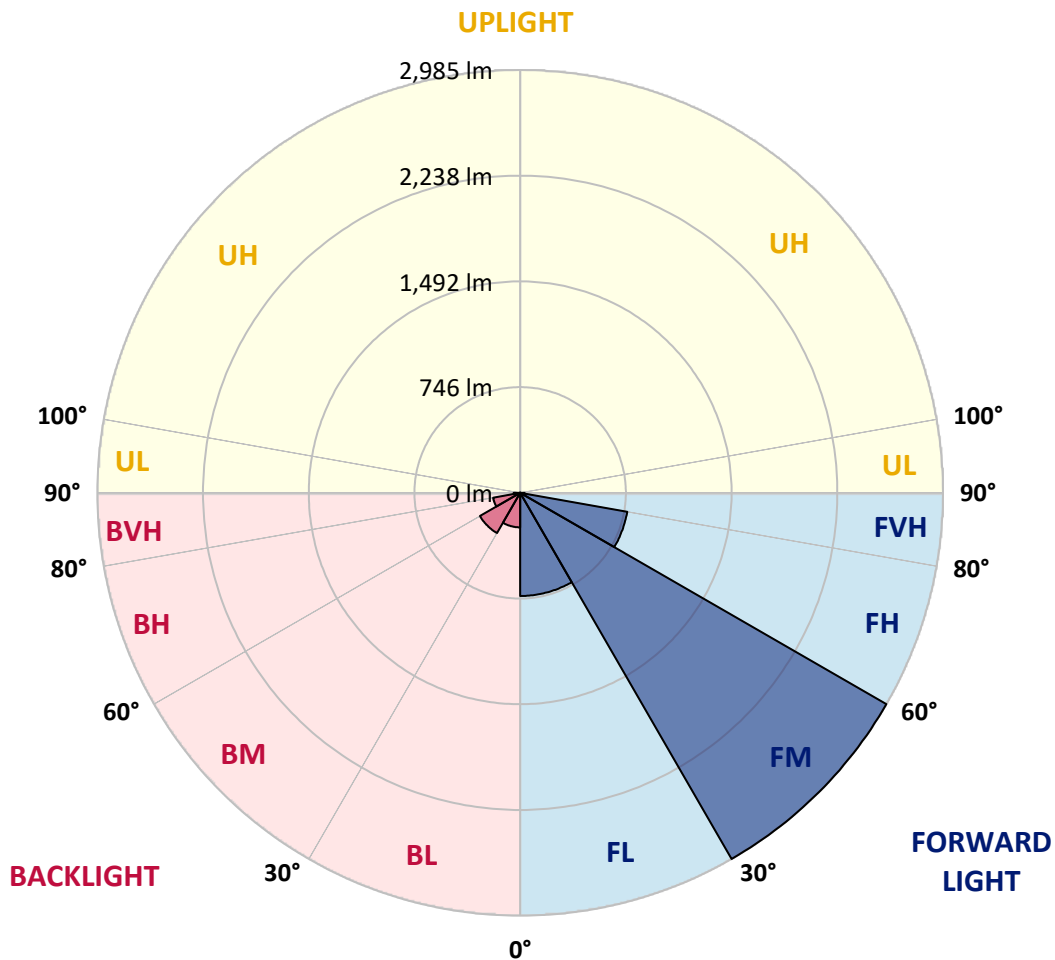
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.1	13.7			
FM	(30°-60°)	2984.5	56.1			
FH	(60°-80°)	767.5	14.4			G1/1800
FVH	(80°-90°)	30.3	0.6			G1/100
BL	(0°-30°)	243.9	4.6	B1/500		
BM	(30°-60°)	327.6	6.2	B1/1000		
BH	(60°-80°)	193.7	3.6	B1/500		G1/500
BVH	(80°-90°)	46.4	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°	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7
2.5°	1615.4	1602.4	1594.1	1586.9	1577.3	1557.0	1529.7	1512.4	1503.6	1473.8	1438.5
5°	1773.8	1762.3	1753.8	1744.0	1726.9	1695.1	1651.0	1615.9	1598.6	1539.0	1468.3
7.5°	1736.7	1741.5	1756.3	1782.1	1804.1	1799.9	1760.5	1715.9	1693.1	1610.2	1502.9
10°	1513.2	1521.4	1547.0	1607.4	1705.1	1805.4	1836.0	1805.1	1782.1	1680.6	1538.5
12.5°	1468.3	1468.1	1470.1	1486.1	1544.2	1685.3	1838.5	1869.5	1855.8	1747.7	1574.8
15°	1486.6	1487.1	1485.6	1492.4	1510.4	1566.3	1761.8	1894.3	1904.1	1815.4	1612.4
17.5°	1534.7	1533.5	1527.7	1527.7	1534.2	1556.0	1671.6	1871.3	1916.4	1875.3	1645.5
20°	1615.4	1609.7	1594.4	1580.3	1573.3	1585.1	1634.5	1818.2	1895.1	1927.7	1672.8
22.5°	1713.2	1708.6	1683.8	1653.8	1629.5	1629.2	1653.5	1771.8	1858.3	1977.0	1695.9
25°	1839.5	1832.2	1795.4	1747.2	1704.6	1688.3	1695.1	1769.5	1838.2	2030.7	1716.4
27.5°	1987.8	1974.5	1930.9	1861.5	1798.9	1766.0	1756.3	1810.4	1856.5	2097.1	1745.0
30°	2167.8	2152.5	2096.6	2006.1	1917.7	1863.8	1843.0	1882.8	1917.2	2178.0	1790.8
32.5°	2372.5	2350.5	2285.8	2186.1	2069.8	1987.6	1953.7	1978.6	2005.9	2275.5	1848.2
35°	2655.4	2629.1	2535.7	2398.1	2266.8	2153.7	2099.6	2117.6	2144.2	2420.9	1931.2
37.5°	2848.4	2836.6	2774.5	2645.2	2502.3	2372.3	2288.6	2299.1	2314.1	2602.6	2037.4
40°	2846.7	2851.4	2852.7	2853.9	2756.7	2632.1	2542.2	2531.1	2528.1	2802.1	2158.2
42.5°	2704.1	2723.6	2786.8	2914.8	2974.0	2916.8	2834.4	2802.6	2786.8	3037.1	2286.3
45°	2485.8	2496.3	2614.6	2864.7	3085.2	3198.8	3136.4	3036.1	3007.5	3253.1	2392.6
47.5°	2373.3	2384.8	2459.2	2731.9	3084.0	3426.6	3462.7	3271.7	3220.6	3441.1	2484.3
50°	2105.4	2129.4	2223.1	2500.8	2971.5	3531.3	3803.7	3552.4	3446.6	3624.0	2576.3
52.5°	1613.4	1650.5	1755.5	2120.9	2686.0	3479.4	4076.6	3892.7	3743.3	3813.5	2655.2
55°	1017.7	1045.3	1133.5	1497.9	2148.7	3209.5	4180.1	4260.8	4128.0	3992.9	2723.6
57.5°	553.3	565.6	598.7	827.0	1397.6	2612.8	4029.3	4470.3	4415.2	4145.3	2775.2
58°	495.2	503.5	524.0	716.7	1239.5	2449.7	3962.4	4471.1	4443.5	4167.6	2779.2
60°	367.4	363.1	344.8	409.0	689.9	1692.4	3557.9	4292.2	4373.1	4194.9	2759.7
62.5°	322.8	312.5	275.2	270.9	335.6	779.6	2722.4	3676.7	3867.9	4039.1	2640.9
65°	303.2	292.2	244.1	228.6	242.1	329.8	1603.6	2757.4	2997.3	3566.4	2337.2
67.5°	288.7	274.4	224.3	203.0	204.0	218.0	642.8	1736.7	2006.6	2707.8	1817.9
70°	274.7	259.1	207.5	182.9	177.2	172.4	255.6	869.4	1114.2	1710.4	1159.1
72.5°	259.6	244.3	192.7	167.2	155.9	140.1	166.9	355.6	496.7	809.2	525.8
75°	237.8	224.0	177.9	153.1	137.1	116.0	126.1	185.7	222.8	322.3	253.4
77.5°	211.0	199.7	161.4	141.6	121.5	94.2	97.0	128.8	142.8	184.4	150.6
80°	151.6	155.6	143.6	127.3	108.3	76.4	74.4	94.0	101.5	118.5	98.0
82.5°	106.5	108.8	118.8	104.0	89.5	60.1	54.9	66.2	70.7	77.9	52.9
85°	73.4	70.9	81.4	72.4	64.7	40.1	37.6	44.9	47.6	48.4	27.3
87.5°	44.1	44.1	47.1	38.8	34.8	20.8	20.3	25.6	27.3	26.1	15.0
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°	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7	1413.7
2.5°	1417.4	1399.6	1361.8	1331.5	1293.1	1253.3	1231.0	1207.2	1190.9	1179.1	1197.9
5°	1428.2	1391.9	1313.7	1239.5	1157.6	1072.4	1007.7	947.5	905.7	879.6	904.2
7.5°	1445.3	1389.4	1264.8	1138.0	990.9	849.1	722.3	642.8	596.4	573.6	587.9
10°	1464.8	1385.4	1207.4	1000.4	789.9	611.2	516.5	484.4	473.9	469.6	471.6
12.5°	1481.1	1376.8	1137.0	834.0	593.2	482.7	455.4	454.6	456.9	457.4	458.1
15°	1492.6	1364.3	1032.5	660.6	474.4	439.8	438.3	442.8	447.1	448.8	449.8
17.5°	1500.4	1338.5	914.5	522.3	425.0	419.0	422.5	428.3	432.8	434.1	435.1
20°	1499.6	1300.7	773.9	435.6	398.2	398.2	404.2	408.7	409.0	407.5	408.2
22.5°	1491.9	1248.8	637.5	389.4	374.4	378.7	384.7	380.4	362.9	351.4	352.1
25°	1478.8	1186.9	520.8	360.1	352.4	359.9	358.1	326.0	301.0	289.7	289.7
27.5°	1467.3	1113.7	431.0	334.6	330.3	339.6	308.5	279.4	268.9	263.6	261.9
30°	1459.0	1034.8	371.2	310.0	309.5	302.7	267.6	259.6	257.9	253.6	252.1
32.5°	1461.0	954.8	332.8	288.5	290.2	259.1	248.1	249.9	248.4	243.8	241.8
35°	1477.6	878.9	307.7	268.9	263.6	234.1	236.6	239.8	239.3	233.1	231.1
37.5°	1507.2	807.0	291.2	252.6	230.1	221.5	225.5	230.6	229.3	225.0	223.5
40°	1538.2	739.3	277.7	239.8	210.3	213.0	216.5	219.3	220.5	221.8	220.8
42.5°	1568.6	668.6	261.1	226.8	202.0	205.0	206.5	209.3	216.0	220.8	220.5
45°	1586.6	602.2	244.1	208.3	195.5	197.2	196.2	201.7	210.0	217.8	218.0
47.5°	1606.6	550.6	230.6	191.2	189.2	190.5	187.5	193.0	200.5	210.0	211.0
50°	1631.0	519.8	219.8	177.7	180.7	180.7	179.9	184.9	195.5	206.5	208.5
52.5°	1658.5	513.7	210.8	167.9	172.2	171.9	172.7	180.2	191.7	202.5	204.2
55°	1692.1	530.0	201.0	160.6	163.9	164.9	167.4	175.9	185.7	198.0	198.7
57.5°	1731.2	563.1	193.2	154.9	156.4	159.6	163.6	171.4	181.9	195.5	196.2
58°	1737.7	570.1	192.0	154.4	154.9	158.6	163.1	170.7	181.2	196.0	196.7
60°	1738.0	593.4	189.2	152.1	149.1	155.4	160.4	167.9	179.9	197.7	199.5
62.5°	1676.3	593.2	187.2	148.9	143.1	150.9	156.6	165.4	178.7	202.0	205.5
65°	1476.1	539.1	177.7	143.8	138.3	146.9	153.4	163.6	182.2	220.5	222.8
67.5°	1154.6	441.8	159.9	136.8	132.1	142.8	151.4	163.4	186.0	224.8	226.3
70°	763.4	330.6	140.3	128.8	125.6	138.1	152.4	171.9	181.7	215.8	211.8
72.5°	396.2	232.1	124.6	118.8	118.0	133.8	166.9	170.9	177.4	203.0	198.0
75°	208.0	161.1	110.8	107.8	109.0	132.8	197.0	166.4	171.9	194.2	203.7
77.5°	127.3	130.1	99.0	97.7	100.2	129.8	196.7	160.6	163.9	178.7	189.2
80°	85.2	105.5	90.0	90.2	92.0	118.8	176.7	151.6	154.1	168.9	179.7
82.5°	53.9	62.4	81.7	86.0	83.7	98.0	150.1	138.1	141.6	193.2	204.2
85°	27.3	39.1	70.9	82.7	75.4	68.7	121.8	121.0	122.8	139.3	145.6
87.5°	12.5	21.6	55.4	72.2	56.9	42.9	88.5	89.7	96.7	99.0	99.0
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)