

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: P199931

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199931
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-7030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4156.2 lumens
Efficiency: N/A
Efficacy: 122.2 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

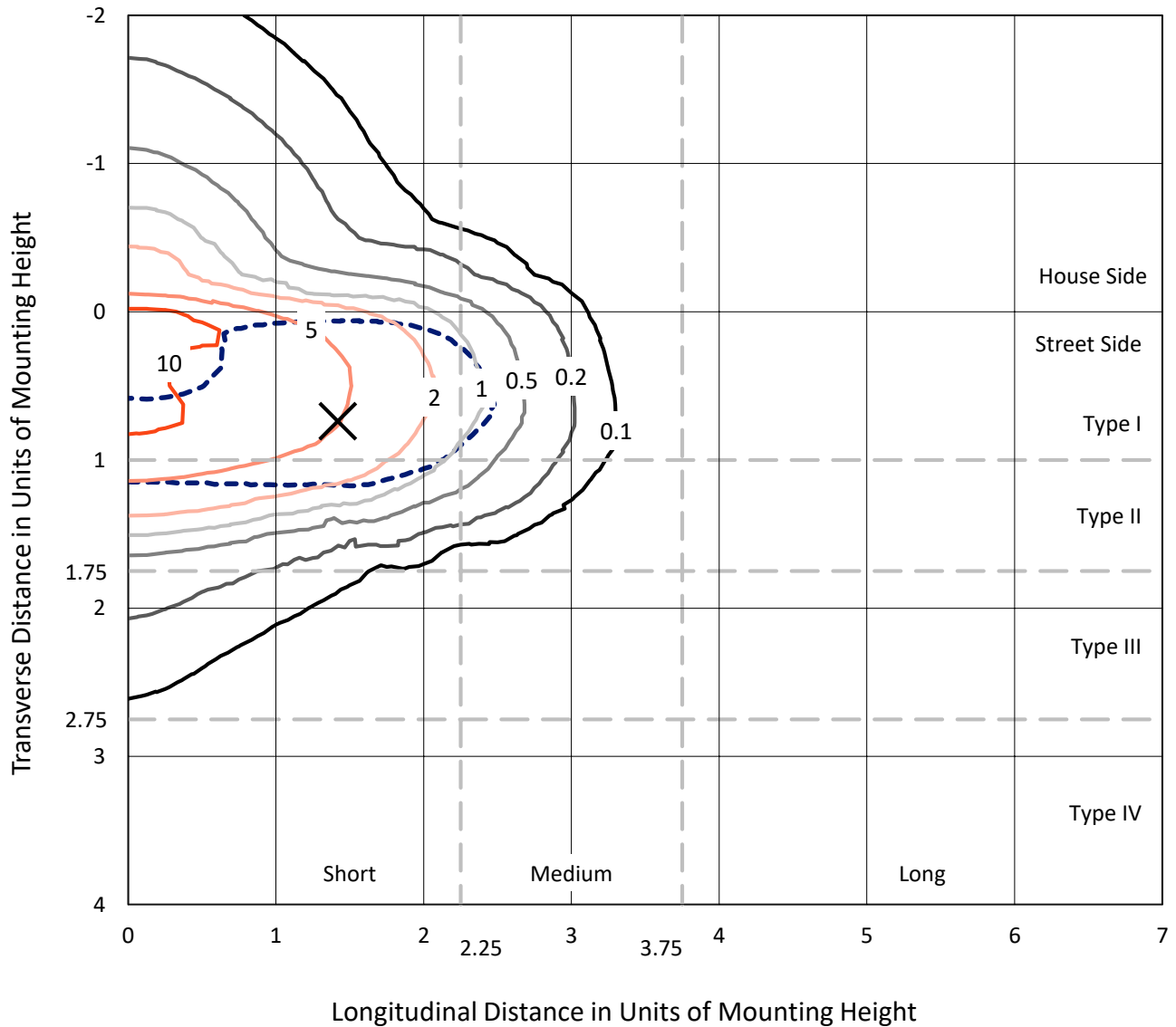
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

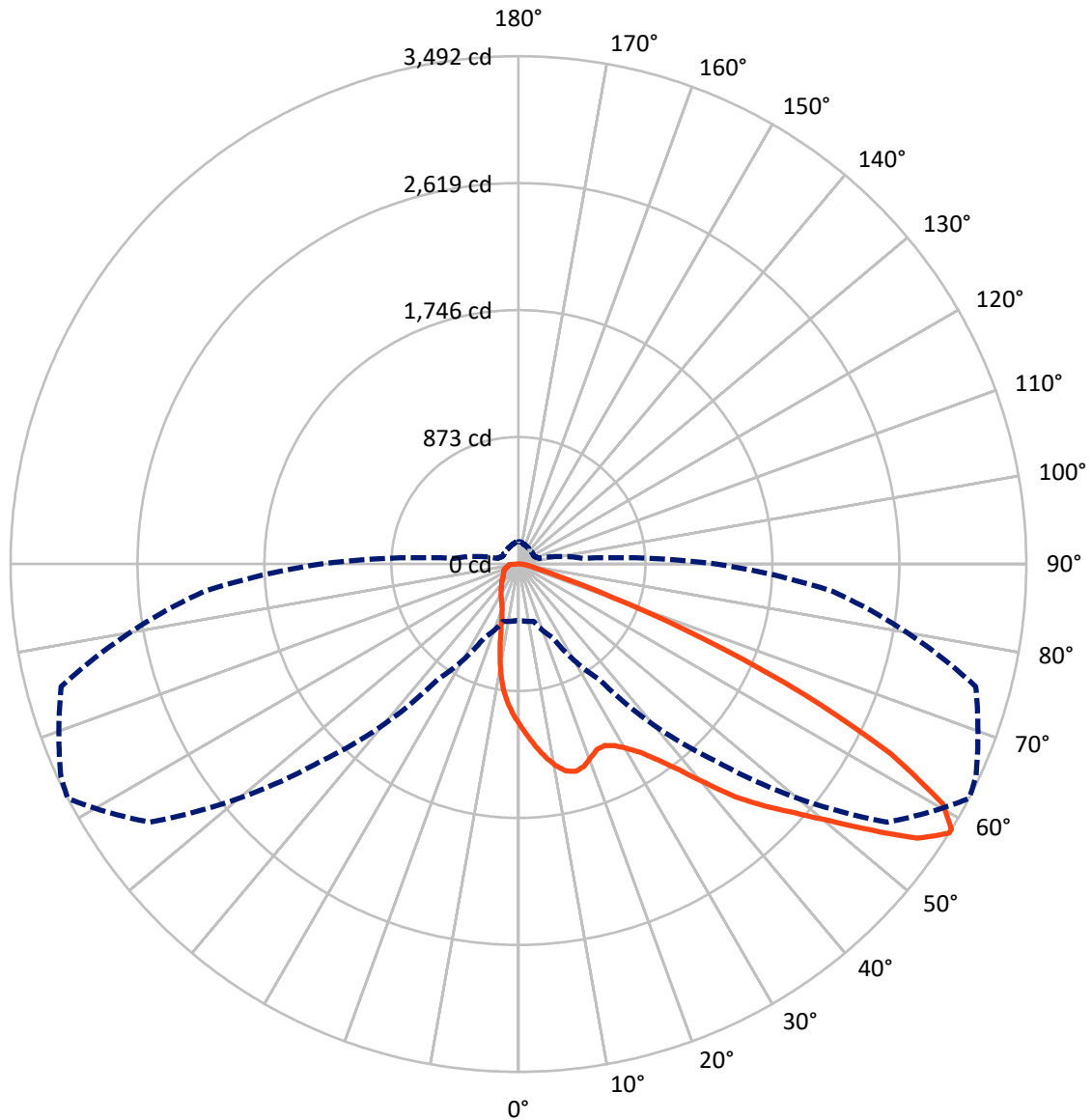
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 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	633.8	0.0	633.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3522.4	0.0	3522.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	4156.2	0.0	4156.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	2.4
10°-20°	252.4	6.1
20°-30°	408.0	9.8
30°-40°	647.7	15.6
40°-50°	947.7	22.8
50°-60°	991.2	23.8
60°-70°	585.6	14.1
70°-80°	165.0	4.0
80°-90°	59.9	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°	4156.2	100.0
0°-180°	4156.2	100.0



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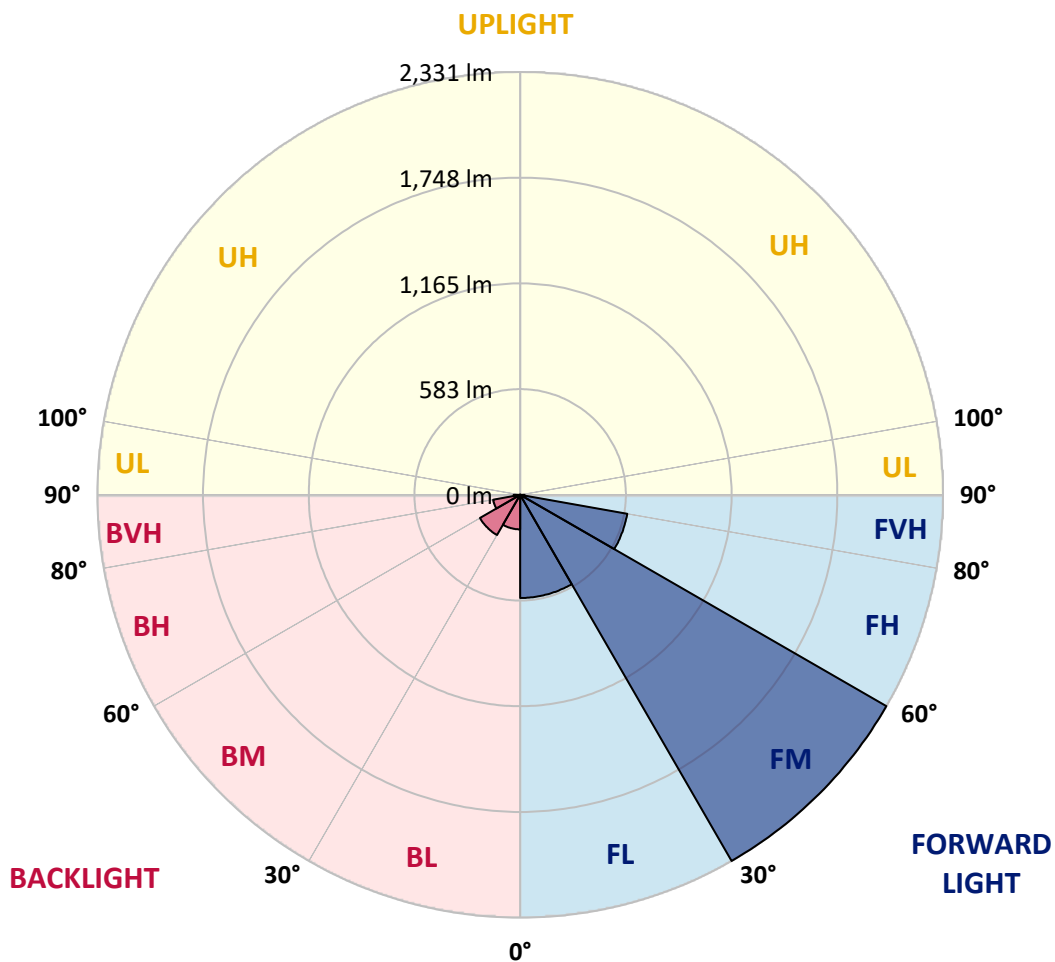
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.6	13.7			
FM	(30°-60°)	2330.8	56.1			
FH	(60°-80°)	599.3	14.4			G0/660
FVH	(80°-90°)	23.6	0.6			G1/100
BL	(0°-30°)	190.5	4.6	B1/500		
BM	(30°-60°)	255.8	6.2	B1/1000		
BH	(60°-80°)	151.2	3.6	B1/500		G1/500
BVH	(80°-90°)	36.3	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°	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1
2.5°	1261.6	1251.3	1244.9	1239.2	1231.8	1215.9	1194.6	1181.1	1174.3	1150.9	1123.4
5°	1385.3	1376.2	1369.6	1361.9	1348.7	1323.7	1289.4	1262.0	1248.5	1201.9	1146.6
7.5°	1356.2	1360.1	1371.5	1391.8	1408.9	1405.6	1374.9	1340.1	1322.2	1257.5	1173.7
10°	1181.7	1188.2	1208.2	1255.3	1331.7	1409.9	1433.8	1409.8	1391.8	1312.4	1201.6
12.5°	1146.6	1146.4	1148.1	1160.6	1206.0	1316.1	1435.7	1460.0	1449.3	1364.8	1229.8
15°	1161.0	1161.3	1160.3	1165.5	1179.6	1223.1	1375.9	1479.4	1487.0	1417.7	1259.2
17.5°	1198.6	1197.6	1193.1	1193.1	1198.1	1215.2	1305.4	1461.4	1496.7	1464.5	1285.0
20°	1261.6	1257.0	1245.1	1234.2	1228.7	1237.9	1276.4	1420.0	1480.0	1505.4	1306.4
22.5°	1337.9	1334.4	1315.1	1291.6	1272.6	1272.4	1291.3	1383.7	1451.2	1544.0	1324.4
25°	1436.5	1430.9	1402.2	1364.5	1331.3	1318.5	1323.7	1381.9	1435.5	1585.9	1340.4
27.5°	1552.3	1541.9	1508.0	1453.8	1404.8	1379.2	1371.5	1413.9	1449.9	1637.7	1362.8
30°	1692.9	1681.0	1637.4	1566.7	1497.6	1455.6	1439.3	1470.4	1497.2	1700.9	1398.5
32.5°	1852.8	1835.5	1785.1	1707.1	1616.4	1552.2	1525.8	1545.2	1566.4	1777.1	1443.5
35°	2073.7	2053.2	1980.3	1872.8	1770.2	1681.9	1639.7	1653.7	1674.5	1890.6	1508.3
37.5°	2224.5	2215.2	2166.7	2065.8	1954.2	1852.6	1787.3	1795.4	1807.2	2032.4	1591.2
40°	2223.1	2226.8	2227.8	2228.8	2152.9	2055.6	1985.4	1976.7	1974.4	2188.3	1685.5
42.5°	2111.8	2127.1	2176.3	2276.3	2322.6	2277.9	2213.5	2188.7	2176.3	2371.8	1785.6
45°	1941.3	1949.5	2041.8	2237.2	2409.3	2498.1	2449.4	2371.0	2348.7	2540.5	1868.5
47.5°	1853.4	1862.5	1920.6	2133.5	2408.4	2676.0	2704.1	2555.0	2515.1	2687.3	1940.1
50°	1644.2	1662.9	1736.1	1953.0	2320.5	2757.8	2970.5	2774.2	2691.6	2830.3	2011.9
52.5°	1260.0	1288.9	1370.9	1656.4	2097.7	2717.3	3183.7	3040.0	2923.3	2978.2	2073.6
55°	794.8	816.2	885.2	1169.7	1678.0	2506.5	3264.4	3327.5	3223.8	3118.3	2127.1
57.5°	432.1	441.7	467.5	645.8	1091.5	2040.5	3146.6	3491.2	3448.1	3237.3	2167.3
58°	386.8	393.3	409.2	559.7	968.0	1913.1	3094.4	3491.7	3470.2	3254.8	2170.4
60°	287.0	283.6	269.4	319.4	538.7	1321.6	2778.6	3352.0	3415.2	3276.0	2155.1
62.5°	252.1	244.0	214.9	211.5	262.1	608.9	2126.0	2871.4	3020.6	3154.4	2062.4
65°	236.8	228.3	190.6	178.5	189.0	257.6	1252.3	2153.4	2340.8	2785.2	1825.1
67.5°	225.5	214.2	175.2	158.5	159.3	170.2	502.0	1356.2	1567.1	2114.7	1419.8
70°	214.4	202.3	162.0	142.9	138.3	134.6	199.6	678.9	870.1	1335.7	905.2
72.5°	202.7	190.7	150.4	130.6	121.8	109.4	130.3	277.7	387.9	631.9	410.6
75°	185.7	175.0	139.0	119.5	107.1	90.5	98.5	145.0	173.9	251.8	197.9
77.5°	164.8	156.0	126.0	110.6	94.9	73.6	75.7	100.6	111.6	144.0	117.7
80°	118.4	121.5	112.1	99.4	84.5	59.6	58.1	73.4	79.2	92.6	76.5
82.5°	83.1	84.9	92.8	81.2	69.8	47.0	42.8	51.7	55.1	60.8	41.3
85°	57.4	55.4	63.6	56.6	50.5	31.3	29.4	35.1	37.1	37.8	21.3
87.5°	34.4	34.4	36.8	30.4	27.2	16.3	15.9	20.0	21.3	20.3	11.7
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°	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1
2.5°	1106.9	1093.0	1063.5	1039.8	1009.9	978.8	961.4	942.8	930.1	920.8	935.5
5°	1115.3	1087.0	1026.0	968.0	904.0	837.5	787.0	740.0	707.4	686.9	706.2
7.5°	1128.6	1085.1	987.8	888.8	773.9	663.1	564.0	502.0	465.8	448.0	459.1
10°	1144.0	1081.8	942.9	781.3	616.9	477.4	403.3	378.4	370.1	366.8	368.3
12.5°	1156.6	1075.2	888.0	651.3	463.3	377.0	355.6	355.0	356.7	357.2	357.8
15°	1165.7	1065.5	806.4	515.9	370.5	343.5	342.3	345.8	349.2	350.5	351.3
17.5°	1171.7	1045.3	714.1	407.9	331.9	327.2	330.0	334.5	338.0	338.9	339.8
20°	1171.1	1015.8	604.3	340.2	311.0	311.0	315.6	319.2	319.4	318.3	318.8
22.5°	1165.0	975.2	497.9	304.2	292.4	295.8	300.5	297.0	283.4	274.3	275.0
25°	1154.9	926.8	406.7	281.3	275.3	281.1	279.7	254.6	235.0	226.2	226.2
27.5°	1145.9	869.7	336.6	261.2	258.0	265.2	240.9	218.2	210.0	205.9	204.6
30°	1139.5	808.1	289.9	242.1	241.7	236.4	209.0	202.7	201.4	198.1	196.8
32.5°	1141.0	745.7	259.9	225.3	226.6	202.3	193.7	195.1	193.9	190.4	188.9
35°	1153.9	686.3	240.4	210.0	205.9	182.8	184.7	187.3	187.0	182.0	180.5
37.5°	1177.0	630.2	227.4	197.3	179.6	172.9	176.1	180.1	179.0	175.8	174.6
40°	1201.3	577.3	216.9	187.3	164.2	166.4	169.2	171.2	172.2	173.1	172.4
42.5°	1225.1	522.1	204.0	177.1	157.8	160.1	161.2	163.5	168.7	172.4	172.2
45°	1239.1	470.3	190.6	162.7	152.6	154.0	153.3	157.6	164.0	170.1	170.2
47.5°	1254.8	429.9	180.1	149.3	147.7	148.7	146.4	150.7	156.6	164.0	164.8
50°	1273.8	405.9	171.6	138.8	141.2	141.2	140.5	144.4	152.6	161.2	162.8
52.5°	1295.3	401.2	164.6	131.1	134.5	134.3	134.8	140.7	149.6	158.1	159.5
55°	1321.5	414.0	157.0	125.4	128.0	128.8	130.8	137.3	145.0	154.6	155.1
57.5°	1352.0	439.8	150.9	121.0	122.2	124.7	127.9	133.9	142.0	152.6	153.3
58°	1357.1	445.2	149.9	120.5	121.0	123.9	127.4	133.3	141.5	153.1	153.6
60°	1357.2	463.5	147.7	118.8	116.5	121.4	125.2	131.1	140.5	154.4	155.8
62.5°	1309.2	463.3	146.2	116.3	111.8	117.8	122.4	129.2	139.6	157.8	160.5
65°	1152.8	420.9	138.8	112.3	108.0	114.7	119.7	127.9	142.2	172.2	173.9
67.5°	901.6	345.0	124.9	106.8	103.1	111.6	118.2	127.7	145.2	175.6	176.8
70°	596.1	258.2	109.6	100.6	98.0	107.8	119.0	134.3	141.9	168.5	165.4
72.5°	309.4	181.3	97.2	92.8	92.3	104.6	130.3	133.6	138.5	158.5	154.6
75°	162.5	125.8	86.6	84.1	85.1	103.7	153.8	129.9	134.3	151.7	159.1
77.5°	99.4	101.6	77.3	76.4	78.3	101.4	153.6	125.4	128.0	139.6	147.7
80°	66.5	82.4	70.3	70.5	71.8	92.8	138.0	118.4	120.4	131.8	140.3
82.5°	42.1	48.7	63.8	67.0	65.3	76.5	117.2	107.8	110.6	150.9	159.5
85°	21.3	30.5	55.4	64.6	58.9	53.6	95.2	94.5	95.9	108.8	113.7
87.5°	9.9	16.8	43.2	56.4	44.5	33.5	69.1	70.0	75.5	77.3	77.3
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)