

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: P300356

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300356
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: GLNA-AF-01-LED-E1-AFL-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4979.4 lumens
Efficiency: N/A
Efficacy: 113.2 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

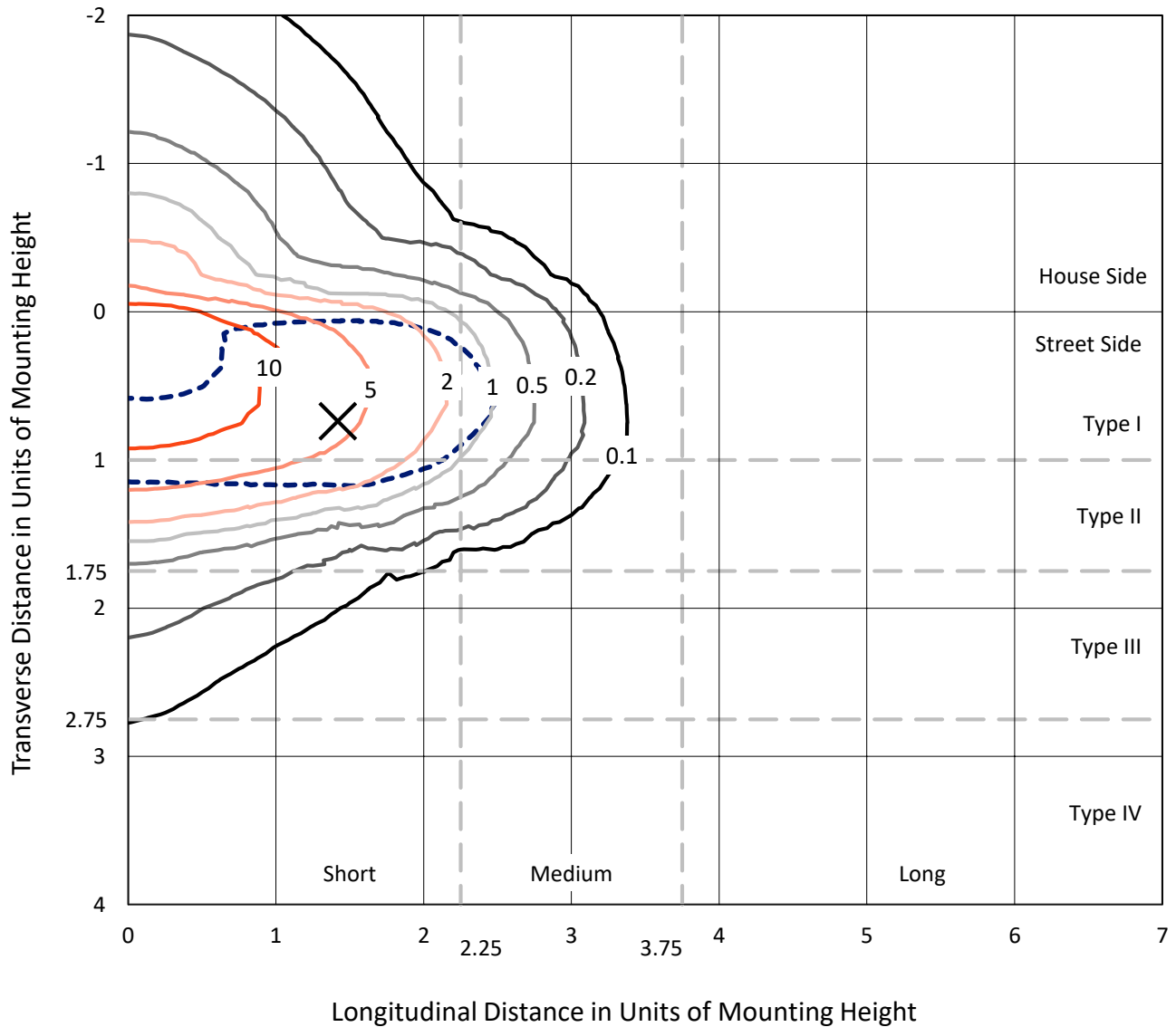
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

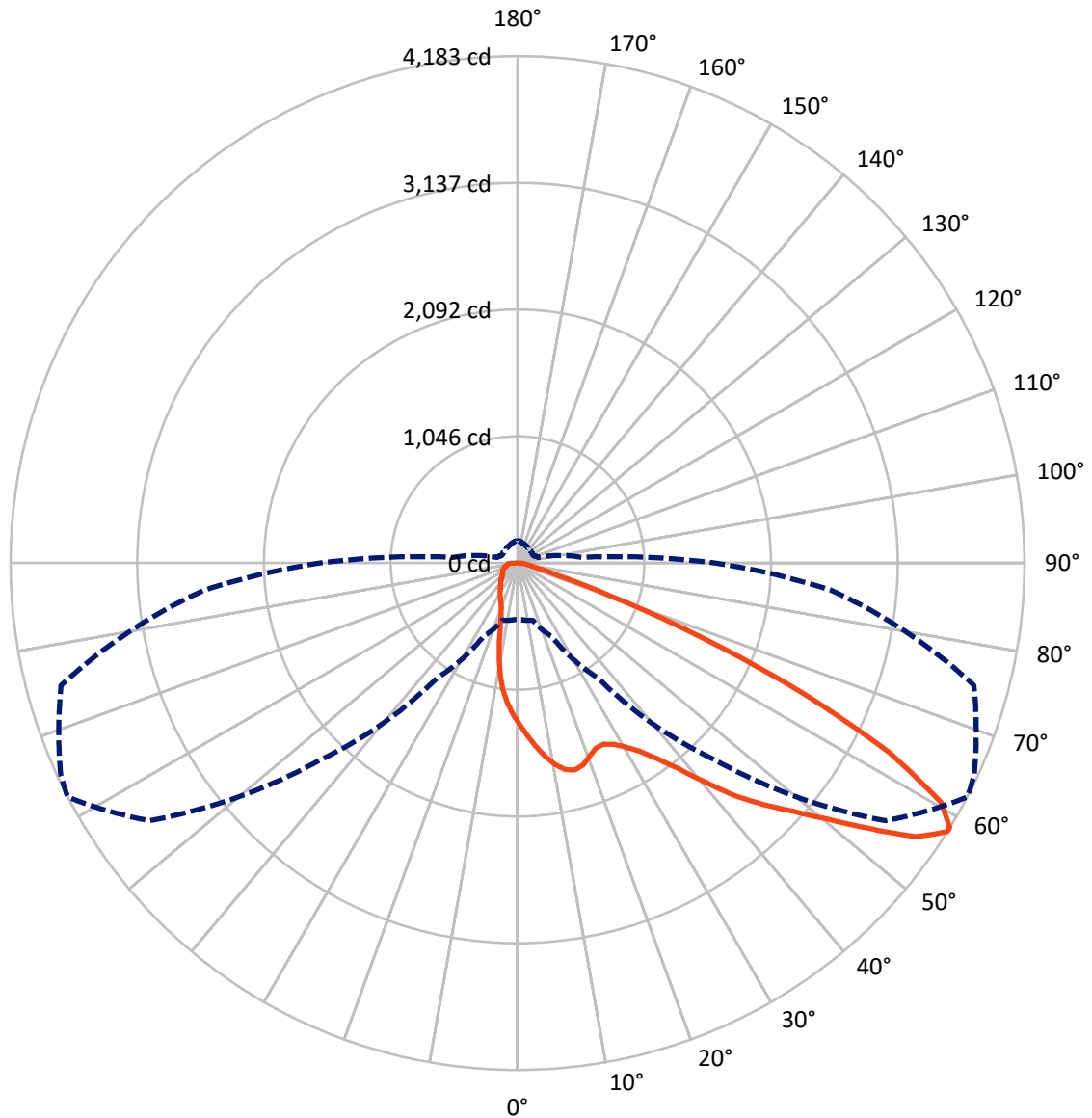
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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
House Side	Lumens	759.4	0.0	759.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4220.0	0.0	4220.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	4979.4	0.0	4979.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.4
10°-20°	302.4	6.1
20°-30°	488.8	9.8
30°-40°	776.0	15.6
40°-50°	1135.4	22.8
50°-60°	1187.5	23.8
60°-70°	701.6	14.1
70°-80°	197.6	4.0
80°-90°	71.8	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°	4979.4	100.0
0°-180°	4979.4	100.0



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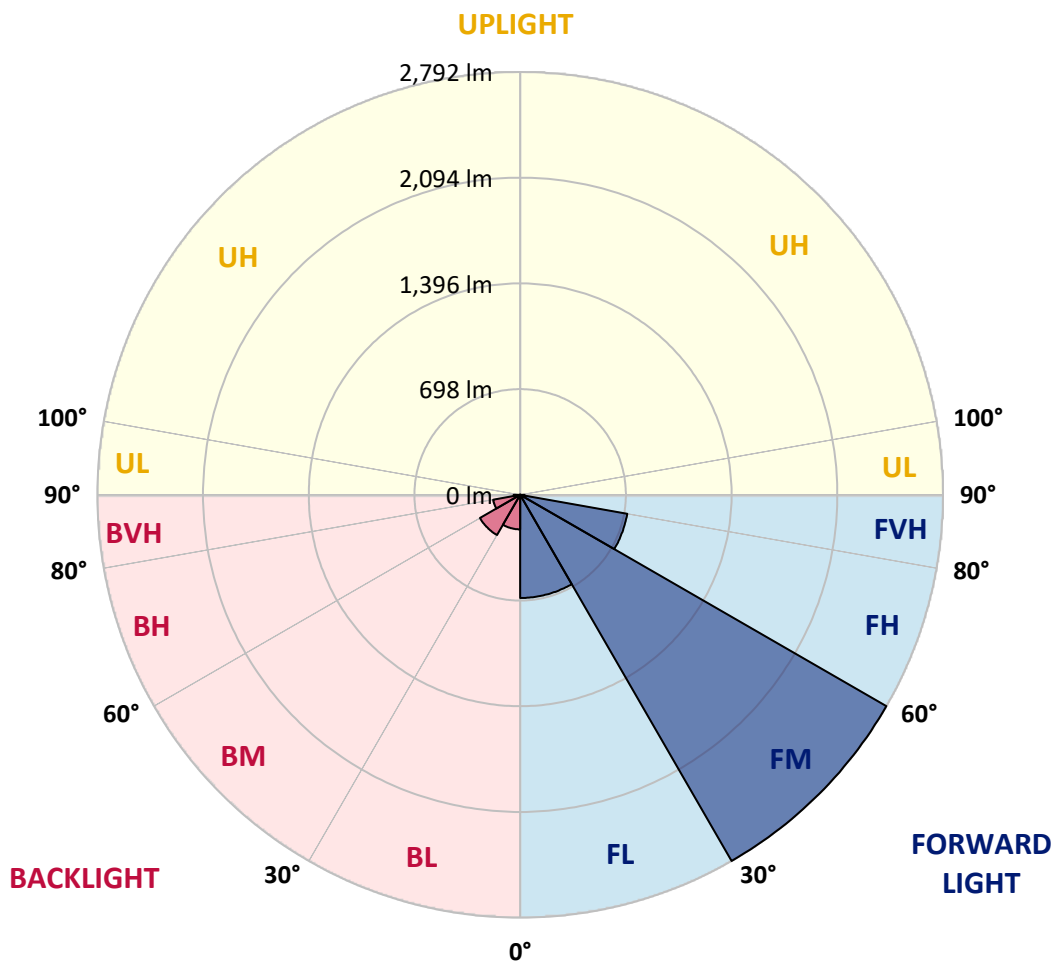
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.2	13.7			
FM	(30°-60°)	2792.4	56.1			
FH	(60°-80°)	718.1	14.4			G1/1800
FVH	(80°-90°)	28.3	0.6			G1/100
BL	(0°-30°)	228.2	4.6	B1/500		
BM	(30°-60°)	306.5	6.2	B1/1000		
BH	(60°-80°)	181.2	3.6	B1/500		G1/500
BVH	(80°-90°)	43.4	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°	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7
2.5°	1511.4	1499.2	1491.5	1484.7	1475.8	1456.8	1431.2	1415.1	1406.9	1379.0	1345.9
5°	1659.6	1648.8	1640.9	1631.7	1615.8	1586.0	1544.7	1511.9	1495.7	1439.9	1373.8
7.5°	1624.9	1629.4	1643.2	1667.4	1688.0	1684.0	1647.2	1605.5	1584.1	1506.5	1406.2
10°	1415.8	1423.5	1447.4	1503.9	1595.4	1689.2	1717.8	1688.9	1667.4	1572.4	1439.5
12.5°	1373.8	1373.6	1375.4	1390.4	1444.8	1576.9	1720.1	1749.2	1736.3	1635.2	1473.5
15°	1390.9	1391.4	1390.0	1396.3	1413.2	1465.5	1648.4	1772.4	1781.6	1698.5	1508.6
17.5°	1435.9	1434.8	1429.4	1429.4	1435.5	1455.9	1564.0	1750.8	1793.0	1754.6	1539.6
20°	1511.4	1506.0	1491.7	1478.6	1472.0	1483.1	1529.3	1701.1	1773.1	1803.6	1565.1
22.5°	1602.9	1598.7	1575.4	1547.3	1524.6	1524.3	1547.1	1657.7	1738.6	1849.8	1586.7
25°	1721.1	1714.3	1679.8	1634.8	1594.9	1579.7	1586.0	1655.6	1719.9	1900.0	1605.9
27.5°	1859.9	1847.4	1806.6	1741.7	1683.1	1652.4	1643.2	1693.9	1737.0	1962.1	1632.7
30°	2028.2	2013.9	1961.6	1877.0	1794.2	1743.8	1724.3	1761.6	1793.7	2037.8	1675.6
32.5°	2219.8	2199.2	2138.7	2045.3	1936.5	1859.6	1828.0	1851.2	1876.8	2129.0	1729.3
35°	2484.5	2459.9	2372.4	2243.7	2120.8	2015.1	1964.4	1981.3	2006.2	2265.0	1806.9
37.5°	2665.1	2654.0	2595.9	2474.9	2341.2	2219.6	2141.2	2151.1	2165.2	2435.0	1906.3
40°	2663.4	2667.9	2669.0	2670.2	2579.2	2462.7	2378.5	2368.2	2365.4	2621.7	2019.3
42.5°	2530.0	2548.3	2607.4	2727.2	2782.5	2729.1	2651.9	2622.2	2607.4	2841.6	2139.1
45°	2325.8	2335.6	2446.3	2680.3	2886.6	2992.9	2934.5	2840.7	2814.0	3043.7	2238.5
47.5°	2220.5	2231.3	2300.9	2556.0	2885.5	3206.0	3239.8	3061.1	3013.3	3219.6	2324.4
50°	1969.8	1992.3	2080.0	2339.8	2780.2	3304.0	3558.9	3323.7	3224.8	3390.8	2410.4
52.5°	1509.6	1544.3	1642.5	1984.4	2513.1	3255.5	3814.2	3642.1	3502.4	3568.0	2484.3
55°	952.2	978.0	1060.5	1401.5	2010.4	3002.9	3911.1	3986.6	3862.3	3735.9	2548.3
57.5°	517.7	529.2	560.2	773.8	1307.7	2444.7	3769.9	4182.6	4131.0	3878.5	2596.6
58°	463.3	471.1	490.3	670.6	1159.7	2292.0	3707.3	4183.3	4157.5	3899.3	2600.3
60°	343.7	339.8	322.6	382.7	645.5	1583.4	3328.9	4015.9	4091.6	3924.9	2582.1
62.5°	302.0	292.4	257.5	253.5	314.0	729.5	2547.1	3440.0	3618.9	3779.1	2470.9
65°	283.7	273.4	228.4	213.8	226.5	308.6	1500.4	2579.9	2804.3	3336.8	2186.7
67.5°	270.1	256.8	209.9	189.9	190.9	204.0	601.4	1624.9	1877.5	2533.5	1700.9
70°	257.0	242.4	194.1	171.2	165.8	161.3	239.2	813.4	1042.5	1600.3	1084.5
72.5°	242.9	228.6	180.3	156.4	145.8	131.1	156.2	332.7	464.7	757.1	491.9
75°	222.5	209.6	166.5	143.3	128.3	108.6	117.9	173.7	208.4	301.5	237.1
77.5°	197.4	186.9	151.0	132.5	113.7	88.2	90.7	120.5	133.7	172.6	140.9
80°	141.9	145.6	134.4	119.1	101.3	71.5	69.6	87.9	95.0	110.9	91.7
82.5°	99.7	101.8	111.1	97.3	83.7	56.3	51.4	61.9	66.1	72.9	49.5
85°	68.7	66.4	76.2	67.8	60.5	37.5	35.2	42.0	44.6	45.3	25.6
87.5°	41.3	41.3	44.1	36.3	32.6	19.5	19.0	23.9	25.6	24.4	14.1
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°	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7
2.5°	1326.2	1309.6	1274.1	1245.8	1209.9	1172.6	1151.7	1129.5	1114.2	1103.2	1120.8
5°	1336.3	1302.3	1229.1	1159.7	1083.0	1003.3	942.8	886.6	847.4	823.0	846.0
7.5°	1352.2	1299.9	1183.4	1064.8	927.1	794.4	675.8	601.4	558.1	536.7	550.1
10°	1370.5	1296.2	1129.7	936.0	739.1	571.9	483.3	453.2	443.4	439.4	441.3
12.5°	1385.8	1288.2	1063.8	780.3	555.0	451.6	426.0	425.3	427.5	427.9	428.6
15°	1396.5	1276.5	966.0	618.1	443.9	411.5	410.1	414.3	418.3	419.9	420.9
17.5°	1403.8	1252.3	855.6	488.6	397.7	392.0	395.3	400.7	404.9	406.1	407.1
20°	1403.1	1216.9	724.1	407.5	372.6	372.6	378.2	382.4	382.7	381.3	382.0
22.5°	1395.8	1168.4	596.5	364.4	350.3	354.3	359.9	355.9	339.5	328.7	329.4
25°	1383.6	1110.5	487.2	336.9	329.7	336.7	335.1	305.1	281.6	271.1	271.1
27.5°	1372.9	1042.0	403.3	313.0	309.0	317.7	288.6	261.4	251.6	246.7	245.0
30°	1365.1	968.2	347.3	290.0	289.6	283.2	250.4	242.9	241.3	237.3	235.9
32.5°	1367.0	893.4	311.4	269.9	271.5	242.4	232.1	233.8	232.4	228.1	226.3
35°	1382.5	822.3	287.9	251.6	246.7	219.0	221.3	224.4	223.9	218.1	216.2
37.5°	1410.1	755.0	272.5	236.4	215.2	207.3	211.0	215.7	214.5	210.6	209.2
40°	1439.2	691.7	259.8	224.4	196.7	199.3	202.6	205.2	206.3	207.5	206.6
42.5°	1467.6	625.6	244.3	212.2	189.0	191.8	193.2	195.8	202.1	206.6	206.3
45°	1484.5	563.4	228.4	194.9	182.9	184.5	183.6	188.8	196.5	203.8	204.0
47.5°	1503.2	515.1	215.7	178.9	177.0	178.2	175.4	180.5	187.6	196.5	197.4
50°	1526.0	486.3	205.6	166.2	169.1	169.1	168.4	173.0	182.9	193.2	195.1
52.5°	1551.8	480.7	197.2	157.1	161.1	160.9	161.6	168.6	179.4	189.5	191.1
55°	1583.2	495.9	188.1	150.3	153.3	154.3	156.6	164.6	173.7	185.2	185.9
57.5°	1619.8	526.9	180.8	144.9	146.3	149.4	153.1	160.4	170.2	182.9	183.6
58°	1625.9	533.4	179.6	144.4	144.9	148.4	152.6	159.7	169.5	183.4	184.1
60°	1626.1	555.2	177.0	142.3	139.5	145.4	150.1	157.1	168.4	185.0	186.6
62.5°	1568.4	555.0	175.2	139.3	133.9	141.2	146.5	154.8	167.2	189.0	192.3
65°	1381.1	504.4	166.2	134.6	129.4	137.4	143.5	153.1	170.5	206.3	208.4
67.5°	1080.2	413.4	149.6	128.0	123.6	133.7	141.6	152.9	174.0	210.3	211.7
70°	714.2	309.3	131.3	120.5	117.5	129.2	142.6	160.9	170.0	201.9	198.1
72.5°	370.7	217.1	116.5	111.1	110.4	125.2	156.2	159.9	166.0	189.9	185.2
75°	194.6	150.8	103.6	100.8	102.0	124.3	184.3	155.7	160.9	181.7	190.6
77.5°	119.1	121.7	92.6	91.4	93.8	121.5	184.1	150.3	153.3	167.2	177.0
80°	79.7	98.7	84.2	84.4	86.1	111.1	165.3	141.9	144.2	158.0	168.1
82.5°	50.4	58.4	76.4	80.4	78.3	91.7	140.5	129.2	132.5	180.8	191.1
85°	25.6	36.6	66.4	77.4	70.6	64.2	114.0	113.3	114.9	130.4	136.2
87.5°	11.7	20.2	51.8	67.5	53.2	40.1	82.8	83.9	90.5	92.6	92.6
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)