

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: P200295

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SL3-7050
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6358 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

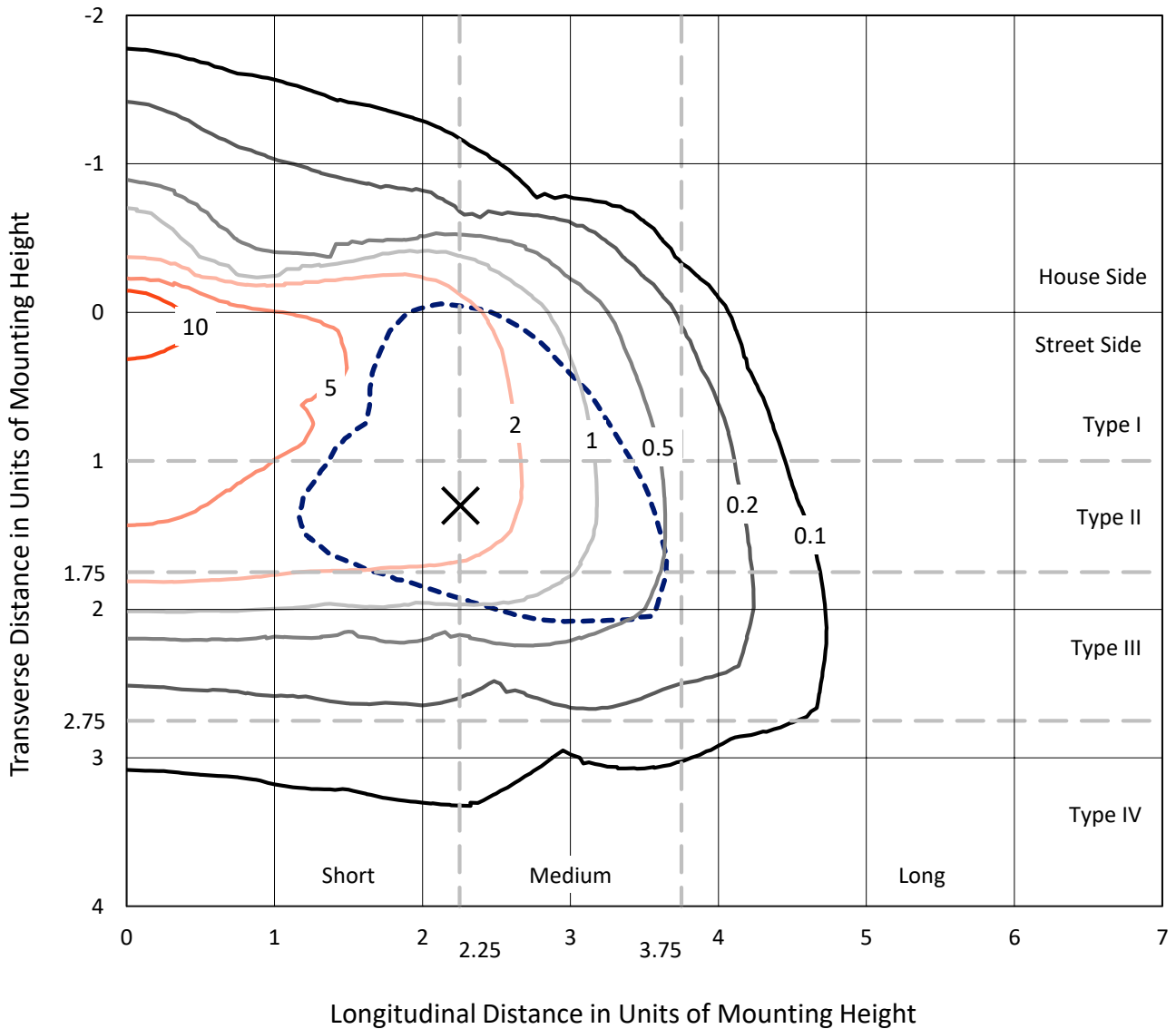
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

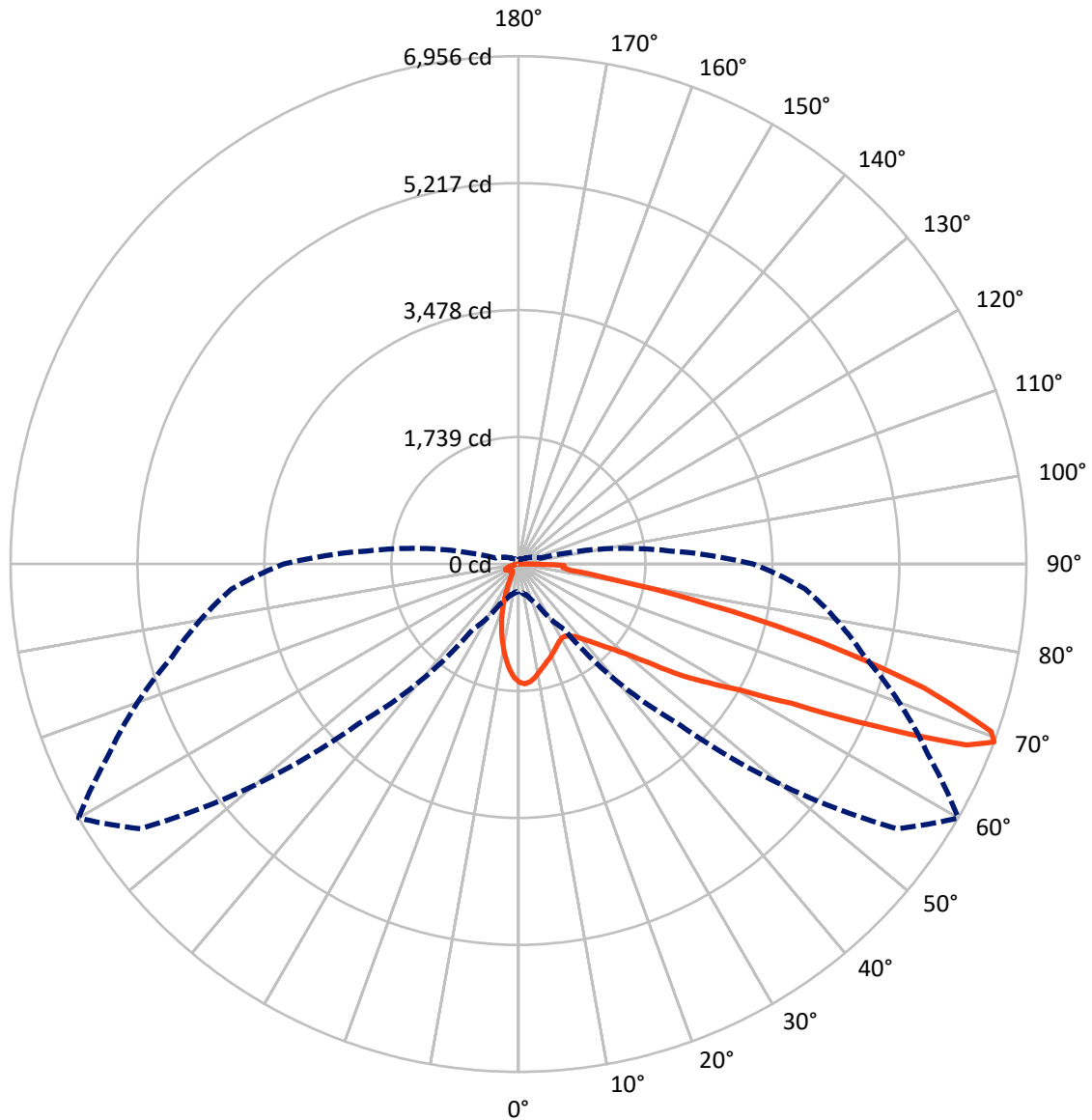
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.5	0.0	904.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5453.5	0.0	5453.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	6358.0	0.0	6358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.2
10°-20°	291.9	4.6
20°-30°	371.9	5.8
30°-40°	511.2	8.0
40°-50°	829.5	13.0
50°-60°	1330.4	20.9
60°-70°	1770.6	27.8
70°-80°	956.0	15.0
80°-90°	159.5	2.5
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°	6358.0	100.0
0°-180°	6358.0	100.0



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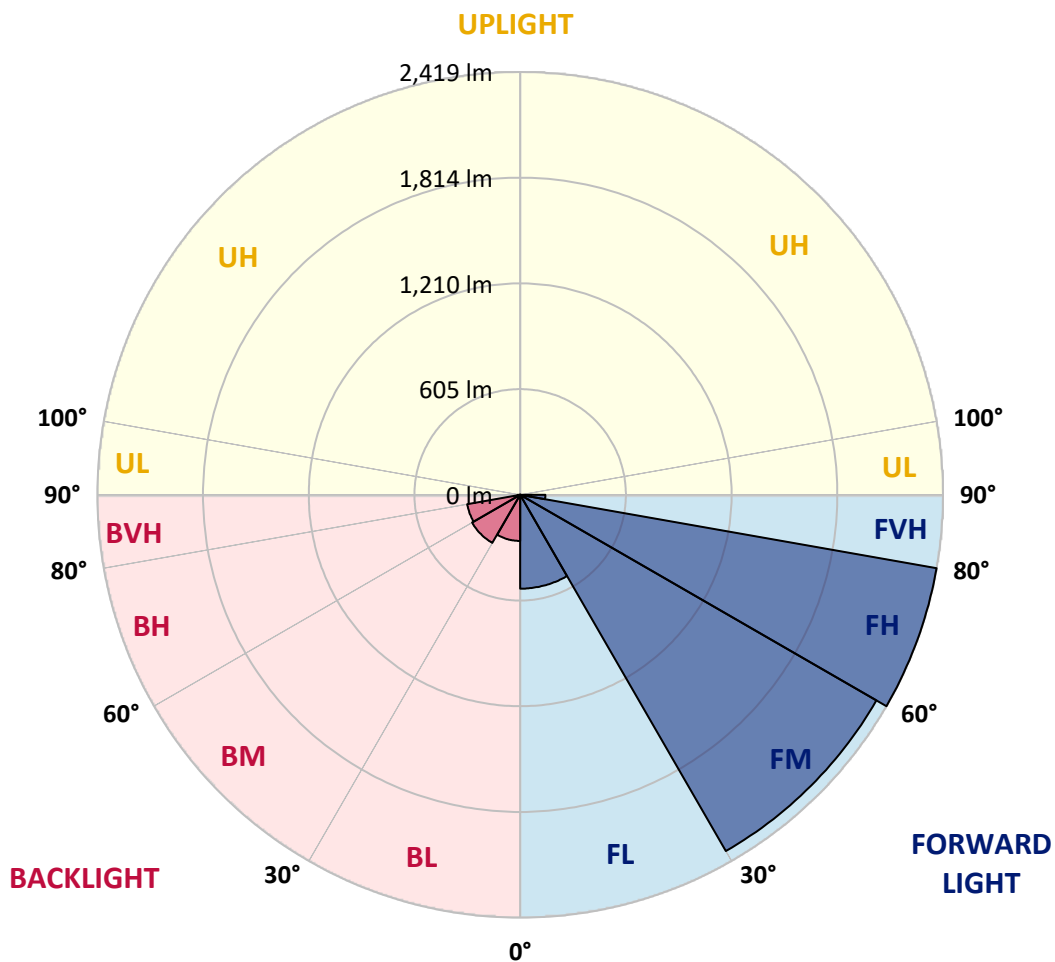
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.8	8.4			
FM (30°-60°)	2353.4	37.0			
FH (60°-80°)	2419.1	38.0			G2/5000
FVH (80°-90°)	144.2	2.3			G2/225
BL (0°-30°)	263.9	4.2	B1/500		
BM (30°-60°)	317.8	5.0	B1/1000		
BH (60°-80°)	307.5	4.8	B1/500		G1/500
BVH (80°-90°)	15.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1
2.5°	1653.3	1657.0	1655.4	1654.5	1657.3	1653.0	1644.1	1641.3	1637.0	1626.9	1609.7
5°	1591.2	1602.3	1601.7	1610.0	1623.8	1627.5	1623.5	1624.1	1616.1	1603.5	1575.0
7.5°	1484.1	1488.7	1491.1	1509.2	1534.4	1554.7	1571.9	1577.4	1573.7	1563.0	1526.1
10°	1373.5	1377.2	1383.0	1404.2	1436.1	1464.1	1496.6	1515.4	1523.4	1521.5	1480.4
12.5°	1278.6	1282.3	1289.9	1313.9	1352.0	1386.4	1433.7	1457.0	1476.1	1487.4	1443.2
15°	1193.5	1201.5	1208.9	1236.5	1279.2	1324.3	1377.8	1407.3	1436.8	1462.2	1410.3
17.5°	1127.2	1135.2	1139.5	1164.6	1210.1	1265.4	1328.0	1362.7	1399.6	1441.4	1377.8
20°	1088.8	1092.5	1090.6	1104.7	1145.6	1204.3	1278.6	1318.8	1363.4	1421.7	1345.2
22.5°	1078.0	1078.3	1071.6	1070.0	1096.5	1145.9	1225.8	1274.6	1329.3	1408.8	1317.3
25°	1104.1	1103.2	1084.8	1069.7	1072.5	1101.4	1174.8	1231.6	1300.7	1406.0	1295.8
27.5°	1162.2	1164.9	1137.6	1109.4	1081.4	1080.5	1136.1	1196.0	1277.4	1418.6	1286.6
30°	1243.6	1248.2	1219.0	1183.1	1130.5	1087.2	1121.0	1174.8	1262.9	1444.7	1285.0
32.5°	1332.6	1337.6	1315.4	1277.7	1208.9	1129.0	1131.5	1176.6	1262.3	1481.3	1295.5
35°	1427.5	1433.1	1421.7	1389.8	1313.3	1206.1	1171.4	1206.4	1282.3	1537.2	1323.4
37.5°	1533.5	1542.1	1545.2	1514.8	1433.1	1307.8	1236.8	1262.9	1327.4	1614.9	1374.7
40°	1686.1	1698.1	1697.2	1653.6	1570.4	1445.1	1337.9	1344.6	1397.8	1718.7	1456.7
42.5°	1978.5	1981.0	1904.5	1809.6	1721.5	1589.4	1457.0	1451.5	1494.8	1850.2	1577.4
45°	2350.5	2340.3	2170.2	1986.8	1879.3	1755.3	1612.1	1585.1	1618.0	2010.5	1728.5
47.5°	2659.1	2635.8	2420.8	2167.7	2046.4	1935.5	1794.3	1747.0	1765.1	2192.3	1923.9
50°	2766.3	2748.8	2570.7	2318.2	2204.6	2155.4	2018.5	1951.5	1956.4	2409.1	2152.7
52.5°	2743.3	2740.8	2622.0	2417.4	2352.6	2386.4	2336.0	2245.4	2197.5	2649.9	2399.6
55°	2688.9	2694.2	2651.2	2532.9	2521.9	2609.4	2751.0	2684.0	2535.1	2892.9	2654.8
57.5°	2500.0	2513.6	2608.2	2678.2	2794.3	2924.5	3085.1	3066.1	2898.4	3155.5	2958.3
60°	2014.2	2045.5	2299.2	2649.9	3074.7	3481.9	3553.8	3509.6	3273.1	3481.3	3359.1
62.5°	1411.3	1443.8	1745.4	2294.3	3028.6	4111.6	4391.7	4200.9	3811.2	3961.4	3877.8
65°	755.5	771.2	1001.6	1591.9	2556.9	4241.5	5616.2	5326.0	4663.2	4553.2	4321.6
67.5°	416.8	425.4	513.5	803.8	1637.6	3735.0	6396.3	6615.6	5728.0	4947.3	4240.9
69°	376.8	384.8	442.6	608.7	1095.8	3088.2	6320.1	6955.6	6194.8	4908.3	3942.3
70°	368.6	375.9	427.8	561.1	887.0	2545.5	6064.9	6868.7	6306.0	4768.5	3681.9
72.5°	331.7	339.7	390.1	504.0	758.0	1269.1	4804.1	5807.5	5725.2	4134.6	2792.7
75°	309.3	316.7	402.0	493.6	725.8	803.1	3167.1	4280.2	4208.6	2892.3	1505.9
77.5°	132.4	131.8	186.4	417.7	736.5	777.7	1701.8	2673.9	2439.5	1236.2	432.4
80°	88.5	86.9	88.5	122.9	675.4	782.0	891.6	1357.2	1025.2	315.1	213.1
82.5°	76.2	74.9	77.7	74.9	237.4	892.5	758.0	721.8	487.4	179.1	105.7
85°	51.3	49.1	67.0	67.3	112.1	793.0	853.8	609.7	394.4	106.3	52.2
87.5°	24.6	24.0	39.0	47.6	65.7	322.2	957.9	624.7	397.7	54.4	24.9
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°	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1
2.5°	1604.5	1591.9	1579.6	1564.8	1549.5	1532.3	1523.7	1515.1	1512.9	1510.5	1501.9
5°	1560.2	1542.4	1511.7	1477.9	1442.3	1407.6	1381.2	1364.6	1352.0	1345.5	1334.2
7.5°	1503.1	1477.0	1423.2	1364.9	1305.0	1250.3	1203.0	1173.2	1145.0	1131.8	1116.7
10°	1448.7	1409.7	1326.2	1240.2	1154.2	1071.6	993.9	938.9	890.1	862.7	843.4
12.5°	1402.1	1348.6	1232.8	1116.4	998.5	880.9	764.4	672.9	596.4	556.2	535.6
15°	1356.6	1292.1	1144.1	996.3	844.9	684.9	532.0	428.1	364.9	339.7	331.1
17.5°	1315.4	1232.8	1055.0	875.3	686.4	492.9	357.5	300.4	276.1	267.8	265.1
20°	1270.9	1172.9	962.5	748.8	521.2	344.6	279.2	254.0	244.2	241.7	240.5
22.5°	1227.9	1114.0	874.1	613.3	374.4	266.0	239.9	229.4	227.9	230.0	230.0
25°	1191.4	1061.1	778.6	471.8	274.9	223.9	214.7	212.2	218.1	226.0	227.6
27.5°	1164.0	1017.8	676.9	348.3	219.0	194.7	194.4	198.4	212.8	228.2	231.3
30°	1145.3	976.7	568.2	251.2	183.7	171.4	176.3	184.9	206.1	227.9	233.7
32.5°	1135.8	946.3	454.9	194.4	157.3	150.5	158.8	169.2	190.1	210.4	218.1
35°	1143.1	923.8	348.0	162.2	138.8	133.6	142.2	152.3	164.6	173.2	179.1
37.5°	1170.8	914.9	262.6	145.3	126.2	121.3	128.1	133.9	138.8	141.3	144.0
40°	1230.4	924.5	210.4	136.7	119.2	113.0	115.8	117.9	121.0	123.5	124.7
42.5°	1318.2	953.0	188.6	133.3	115.5	106.6	106.0	106.9	110.9	115.5	116.4
45°	1441.1	1003.4	187.0	135.4	113.6	101.4	98.6	99.8	106.0	113.0	114.3
47.5°	1598.0	1080.2	199.3	141.9	115.2	98.6	94.0	95.5	103.2	112.7	114.3
50°	1788.1	1187.4	219.9	151.4	121.9	99.2	92.4	93.4	101.4	111.8	113.3
52.5°	2012.6	1339.4	242.3	160.6	129.0	103.2	93.7	91.5	98.9	108.1	110.0
55°	2262.3	1534.4	265.4	168.9	132.7	108.1	96.1	89.1	94.3	102.0	103.5
57.5°	2568.8	1807.2	305.3	176.9	135.1	111.5	98.6	86.6	88.5	94.0	95.2
60°	2983.8	2192.9	375.6	190.1	140.7	112.7	98.3	84.5	82.6	85.7	86.3
62.5°	3481.0	2611.8	434.3	206.7	149.9	113.6	96.4	82.9	77.7	77.7	78.3
65°	3776.2	2723.9	401.7	220.5	157.6	112.7	94.3	81.4	74.0	70.6	70.9
67.5°	3525.9	2395.6	344.3	223.3	157.3	108.4	90.9	78.6	70.3	65.1	64.8
69°	3212.3	2067.0	318.5	215.9	149.9	102.9	86.6	75.6	67.6	62.0	61.7
70°	2959.5	1866.4	301.6	207.9	141.9	98.9	83.2	72.8	65.4	60.2	59.6
72.5°	2151.8	1223.0	257.7	178.8	117.0	82.9	71.9	63.9	58.4	55.3	54.7
75°	1075.3	583.2	209.2	145.0	89.7	66.3	59.0	53.4	50.7	50.1	49.8
77.5°	353.2	267.2	149.6	108.1	66.6	51.9	47.6	43.6	43.0	44.8	44.2
80°	194.1	155.4	94.9	71.6	45.5	38.1	37.5	35.3	36.2	39.3	38.7
82.5°	98.9	80.8	58.7	43.0	30.7	27.3	29.8	28.6	29.8	32.6	32.2
85°	48.8	44.2	37.2	26.1	20.3	17.5	21.2	22.1	22.7	24.9	24.9
87.5°	28.3	26.1	19.7	12.3	10.1	9.2	12.3	12.0	14.1	15.4	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

(END OF REPORT)