

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: P299222

Luminaire Tested: **GLNA-AF-02-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7575.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

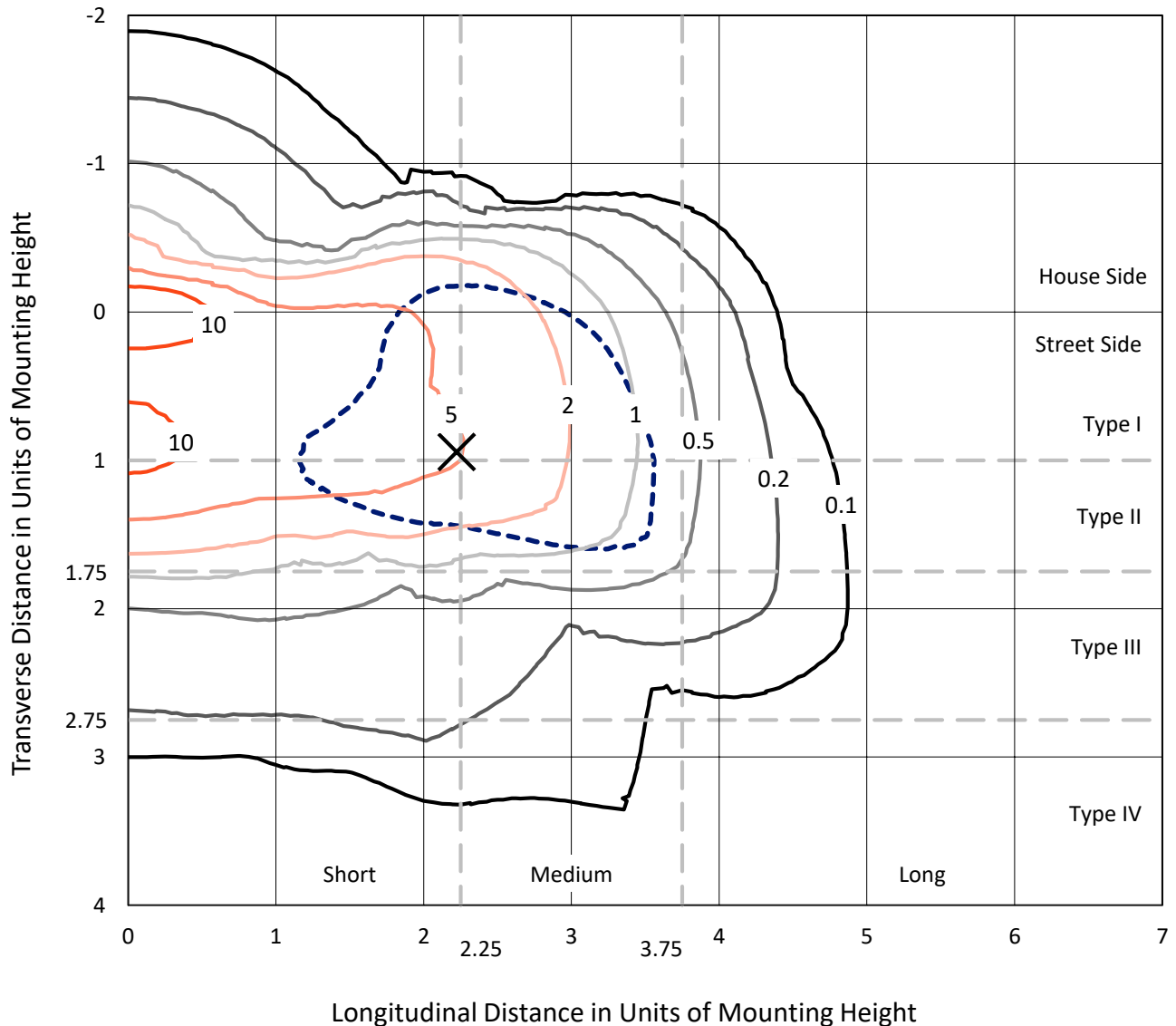
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

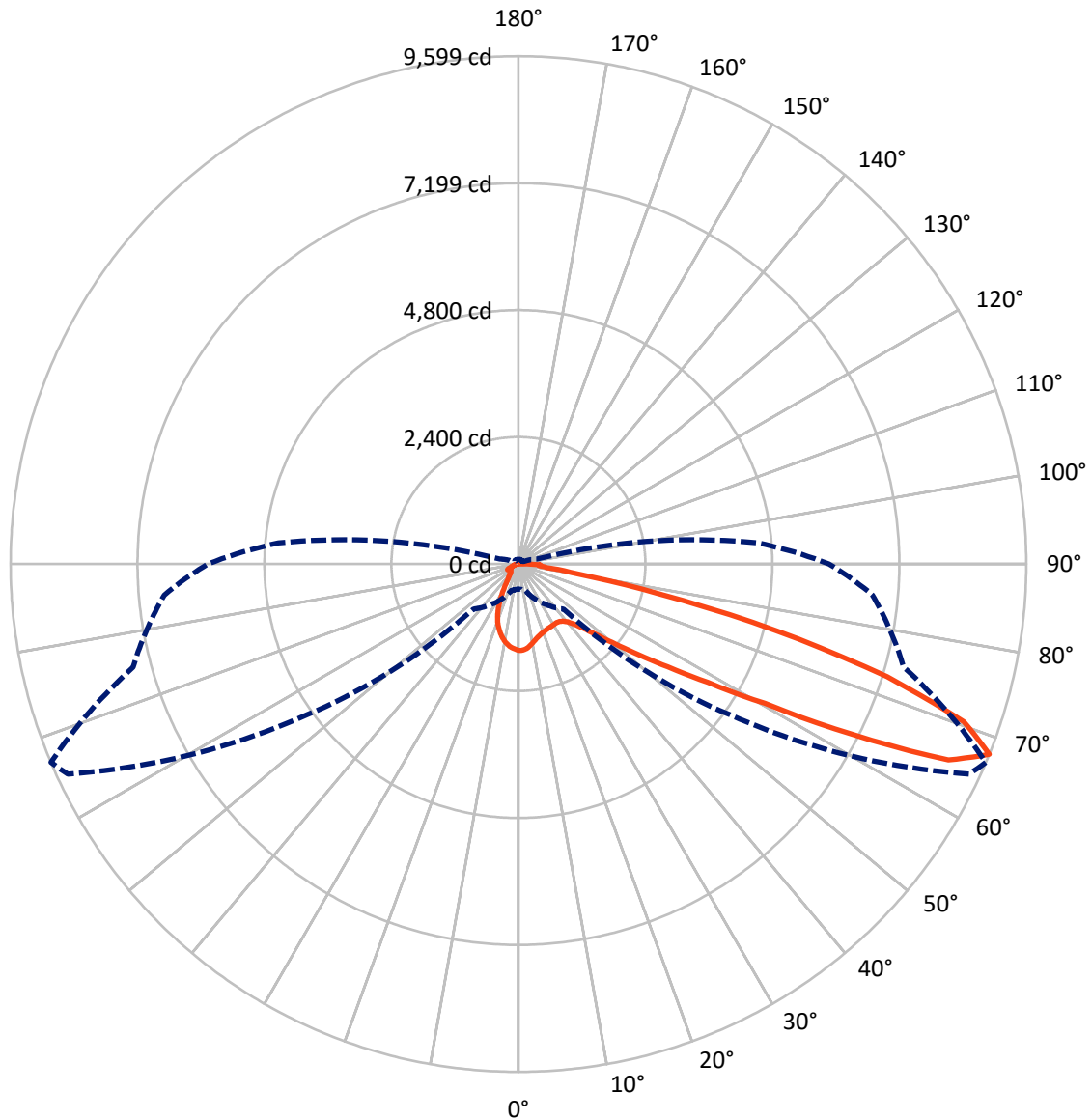
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.2	0.0	1255.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6320.6	0.0	6320.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	7575.8	0.0	7575.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.8
10°-20°	322.6	4.3
20°-30°	437.3	5.8
30°-40°	621.6	8.2
40°-50°	1040.0	13.7
50°-60°	1645.2	21.7
60°-70°	2095.9	27.7
70°-80°	1097.8	14.5
80°-90°	176.1	2.3
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°	7575.8	100.0
0°-180°	7575.8	100.0

Coefficient of Utilization



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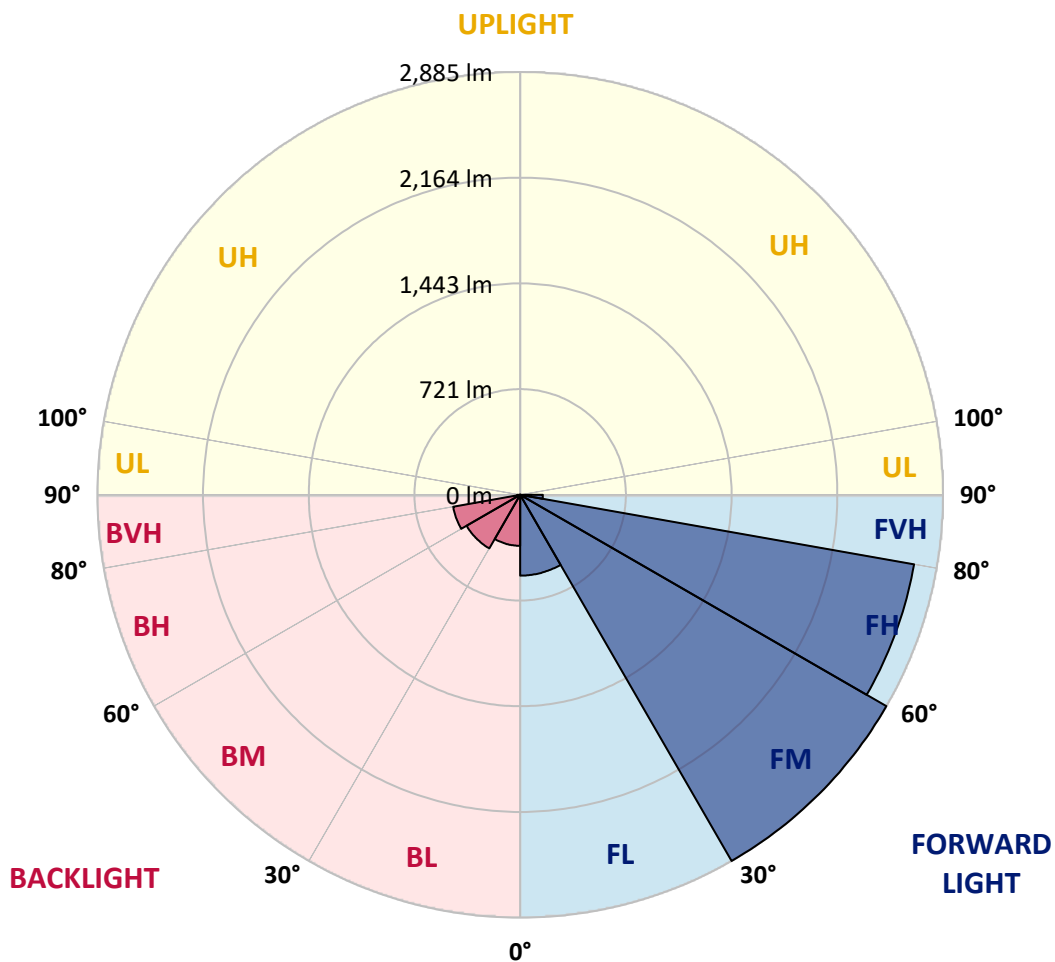
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.3	7.3			
FM (30°-60°)	2885.0	38.1			
FH (60°-80°)	2729.4	36.0			G2/5000
FVH (80°-90°)	154.8	2.0			G2/225
BL (0°-30°)	347.9	4.6	B1/500		
BM (30°-60°)	421.8	5.6	B1/1000		
BH (60°-80°)	464.3	6.1	B1/500		G1/500
BVH (80°-90°)	21.3	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1566.8	1569.5	1577.7	1582.9	1606.4	1616.5	1623.6	1630.7	1631.8	1635.2	1631.8
5°	1402.5	1408.1	1423.4	1440.6	1486.1	1522.0	1559.7	1599.0	1606.1	1631.5	1638.6
7.5°	1275.1	1273.6	1286.3	1306.8	1353.5	1403.2	1469.3	1547.4	1562.7	1619.9	1647.5
10°	1182.0	1180.9	1194.4	1215.7	1260.1	1307.2	1381.9	1488.8	1510.4	1601.6	1656.1
12.5°	1113.3	1113.7	1127.1	1150.7	1195.9	1243.3	1319.2	1432.0	1459.6	1580.3	1665.1
15°	1067.7	1070.7	1081.5	1106.6	1150.7	1198.1	1272.5	1389.4	1420.4	1563.5	1675.2
17.5°	1052.4	1057.3	1061.0	1079.3	1117.0	1164.5	1237.3	1358.0	1390.9	1551.9	1684.1
20°	1066.6	1072.2	1065.1	1071.5	1095.4	1137.2	1209.7	1333.3	1367.0	1538.8	1685.3
22.5°	1127.5	1132.7	1111.8	1093.5	1092.0	1117.4	1186.9	1313.9	1348.7	1529.1	1685.6
25°	1234.7	1238.1	1203.0	1160.4	1118.9	1110.3	1170.8	1300.5	1337.5	1520.5	1678.5
27.5°	1366.2	1368.8	1328.5	1265.7	1182.4	1127.1	1165.2	1292.6	1331.1	1513.0	1666.6
30°	1526.1	1538.4	1484.3	1405.1	1283.7	1176.8	1176.4	1288.5	1324.0	1500.3	1643.1
32.5°	1689.8	1695.0	1657.6	1577.3	1420.0	1264.2	1207.8	1291.5	1322.1	1485.0	1613.2
35°	1855.6	1862.4	1838.1	1773.4	1606.4	1392.4	1269.1	1309.1	1333.7	1479.8	1592.2
37.5°	2070.4	2079.4	2045.8	1971.1	1833.2	1566.1	1371.1	1353.1	1369.2	1494.7	1585.9
40°	2410.0	2405.9	2307.7	2196.3	2081.3	1788.4	1516.8	1427.9	1437.2	1542.9	1605.3
42.5°	2805.3	2795.2	2626.0	2451.1	2354.0	2057.4	1709.6	1557.5	1555.6	1637.8	1673.7
45°	3120.6	3112.4	2960.0	2744.4	2666.7	2363.7	1958.7	1750.6	1736.8	1788.4	1800.0
47.5°	3291.3	3291.7	3203.9	3028.0	3026.1	2753.0	2278.9	2030.1	2006.2	2030.5	2018.1
50°	3231.6	3239.4	3230.1	3174.0	3354.1	3263.3	2697.0	2419.8	2371.6	2395.5	2348.0
52.5°	2942.4	2952.5	3007.8	3093.7	3492.0	3880.1	3311.1	2903.9	2847.9	2839.3	2786.6
55°	2429.8	2442.2	2555.0	2788.5	3377.3	4294.4	4280.2	3521.1	3431.8	3350.7	3328.3
57.5°	1674.8	1695.4	1876.9	2223.6	3006.3	4419.6	5434.3	4400.9	4219.3	3936.2	3941.4
60°	944.1	968.0	1182.0	1497.0	2257.6	4283.6	6312.2	5733.5	5350.2	4621.7	4660.6
62.5°	600.4	626.1	788.7	1040.1	1354.6	3551.4	6672.0	7586.1	7099.4	5466.8	5504.9
65°	486.0	497.2	573.8	858.5	983.7	2139.6	6398.9	9112.3	8930.7	6539.3	6361.5
67.5°	474.5	478.2	517.8	720.7	943.3	1202.6	5104.0	9397.7	9599.1	7540.9	6718.3
70°	468.9	481.9	583.5	687.8	903.3	1014.3	3067.2	8615.4	8933.3	7802.8	6243.5
72.5°	227.5	226.8	293.6	622.0	1017.7	1052.0	1575.8	6970.8	7289.9	6760.1	5130.5
75°	183.4	167.7	160.3	227.9	978.4	1086.4	1004.2	4796.5	5027.4	4532.4	3153.9
77.5°	174.1	155.4	142.3	142.7	413.6	1152.2	850.7	2654.7	2722.0	2047.3	864.1
80°	144.2	127.0	117.7	132.6	200.2	1097.2	919.8	1201.5	1102.5	502.9	287.7
82.5°	100.1	91.2	88.5	111.3	160.3	781.9	1069.6	645.6	541.3	251.8	177.5
85°	63.9	54.5	60.5	81.1	124.8	360.9	1101.7	503.2	400.1	159.9	100.1
87.5°	29.5	23.9	29.9	44.8	81.4	124.4	1048.3	565.2	412.1	84.4	63.1
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°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1634.8	1627.7	1622.1	1611.7	1600.1	1588.9	1578.8	1566.1	1562.4	1559.0	1564.2
5°	1640.1	1633.0	1612.4	1580.3	1544.8	1511.6	1478.3	1449.9	1432.3	1422.6	1428.2
7.5°	1647.9	1637.8	1595.2	1536.2	1472.3	1414.0	1353.9	1305.7	1270.2	1253.4	1258.3
10°	1655.0	1635.6	1566.1	1477.6	1384.2	1297.5	1202.6	1124.1	1065.9	1035.2	1042.7
12.5°	1658.0	1627.0	1525.4	1404.3	1276.2	1149.2	1009.4	892.1	808.5	777.8	771.5
15°	1661.0	1617.3	1480.5	1321.0	1145.8	966.1	770.3	629.9	560.4	545.1	541.7
17.5°	1661.7	1600.5	1429.7	1230.6	993.0	748.3	526.8	437.5	437.8	462.5	465.5
20°	1653.9	1575.4	1368.1	1118.2	809.9	517.4	361.6	346.3	402.7	464.4	471.8
22.5°	1636.0	1542.2	1298.2	987.0	600.4	340.7	279.8	296.6	369.5	444.9	453.5
25°	1613.2	1501.8	1215.7	835.0	397.5	243.6	234.6	255.2	304.5	354.9	359.8
27.5°	1582.2	1454.0	1123.0	660.9	258.2	200.6	206.6	220.4	240.6	263.0	265.2
30°	1542.2	1396.9	1024.0	481.9	195.0	180.4	189.0	196.5	205.1	217.8	218.9
32.5°	1496.2	1341.9	922.4	332.9	173.0	170.0	176.7	180.4	187.2	195.0	195.8
35°	1457.8	1289.6	817.0	235.4	163.6	162.1	166.6	168.1	174.5	183.1	183.8
37.5°	1435.7	1247.0	708.3	189.8	157.3	155.0	157.7	157.7	166.6	179.3	181.2
40°	1437.2	1223.5	599.6	171.5	152.1	149.1	149.4	149.4	161.0	174.8	176.0
42.5°	1477.9	1229.5	503.2	164.4	147.9	144.6	142.7	143.8	153.5	162.5	163.3
45°	1573.6	1271.7	412.8	159.9	143.8	142.7	138.6	138.2	142.0	146.1	146.1
47.5°	1730.5	1355.0	351.5	156.9	140.5	140.1	135.2	130.4	130.0	131.5	131.5
50°	1985.6	1498.5	310.5	153.5	138.2	135.2	129.6	122.2	119.5	120.7	120.7
52.5°	2368.2	1754.4	294.8	149.1	133.4	128.5	122.2	114.7	112.5	112.8	112.8
55°	2869.9	2147.4	292.5	143.8	128.1	120.3	115.1	109.5	106.8	107.6	107.6
57.5°	3483.0	2691.0	332.5	135.6	121.0	112.1	109.1	105.4	103.5	104.6	104.2
60°	4228.3	3402.3	493.1	127.0	113.9	104.6	104.6	101.6	100.1	101.2	100.9
62.5°	5086.8	4219.3	693.4	120.7	106.5	98.6	100.1	98.6	97.1	97.9	97.5
65°	5848.2	4751.7	649.3	115.8	99.0	93.0	95.6	94.9	93.8	94.5	94.1
67.5°	5870.2	4554.5	364.6	110.6	91.9	87.4	91.2	90.8	90.0	90.8	90.4
70°	5238.9	3845.7	205.5	100.9	84.4	80.7	85.9	85.6	84.8	86.3	85.9
72.5°	4197.3	2790.7	150.2	88.9	77.0	73.6	79.6	79.2	79.2	81.4	80.3
75°	2415.3	1436.1	119.9	76.2	69.1	66.5	71.7	72.1	72.9	75.8	73.6
77.5°	688.5	447.6	97.9	64.6	59.4	58.3	63.5	64.3	64.6	68.0	65.0
80°	255.9	206.2	80.7	54.2	48.6	48.9	53.8	54.9	55.3	58.7	54.9
82.5°	163.3	136.0	65.4	41.8	38.1	37.7	43.7	45.2	45.2	45.6	43.3
85°	95.3	81.4	49.3	30.3	26.9	25.8	32.5	35.1	34.0	33.2	31.8
87.5°	63.9	56.0	30.3	16.8	14.6	13.8	19.1	20.9	20.2	19.1	17.9
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)