

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: P191240

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9564.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

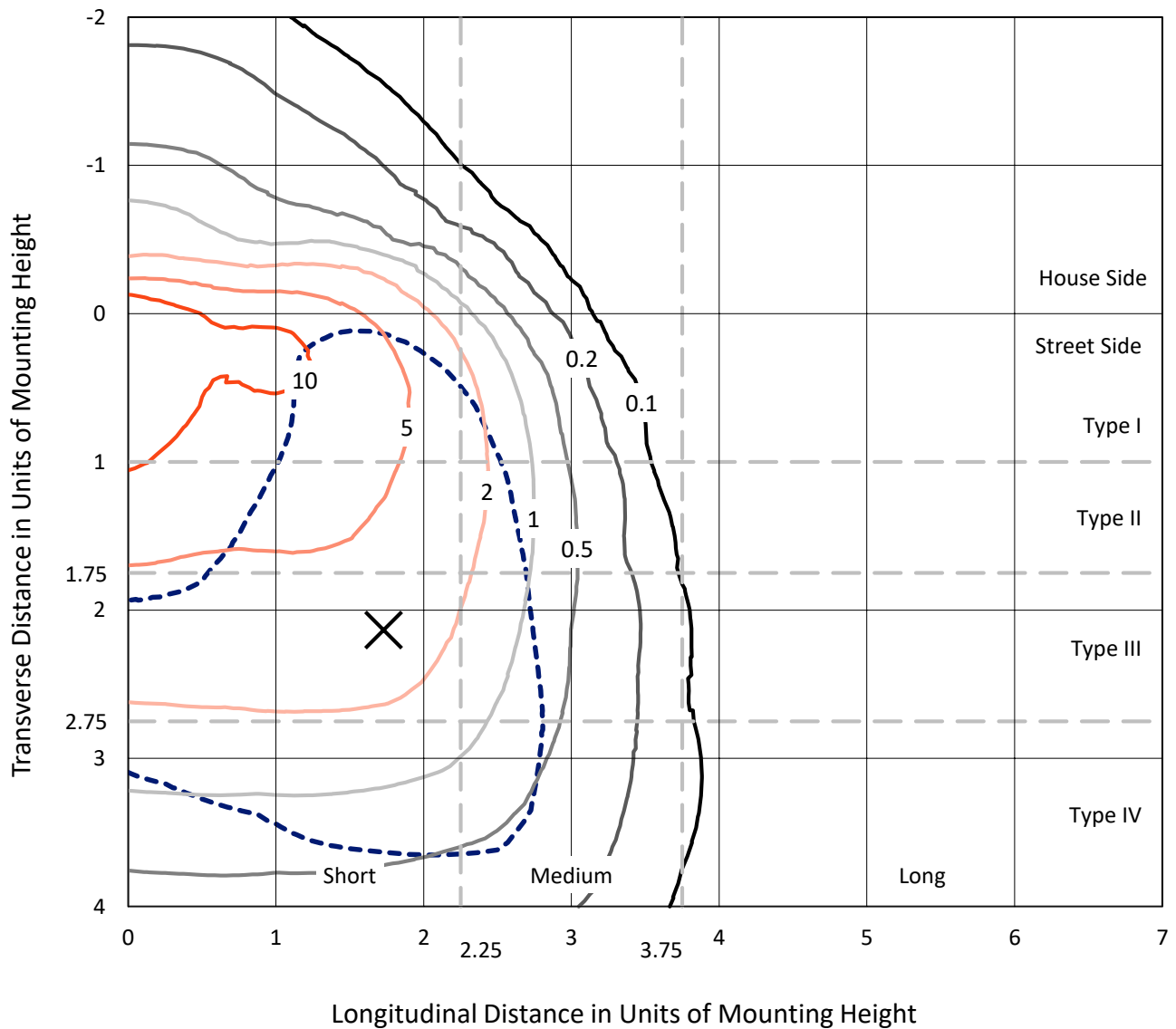
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

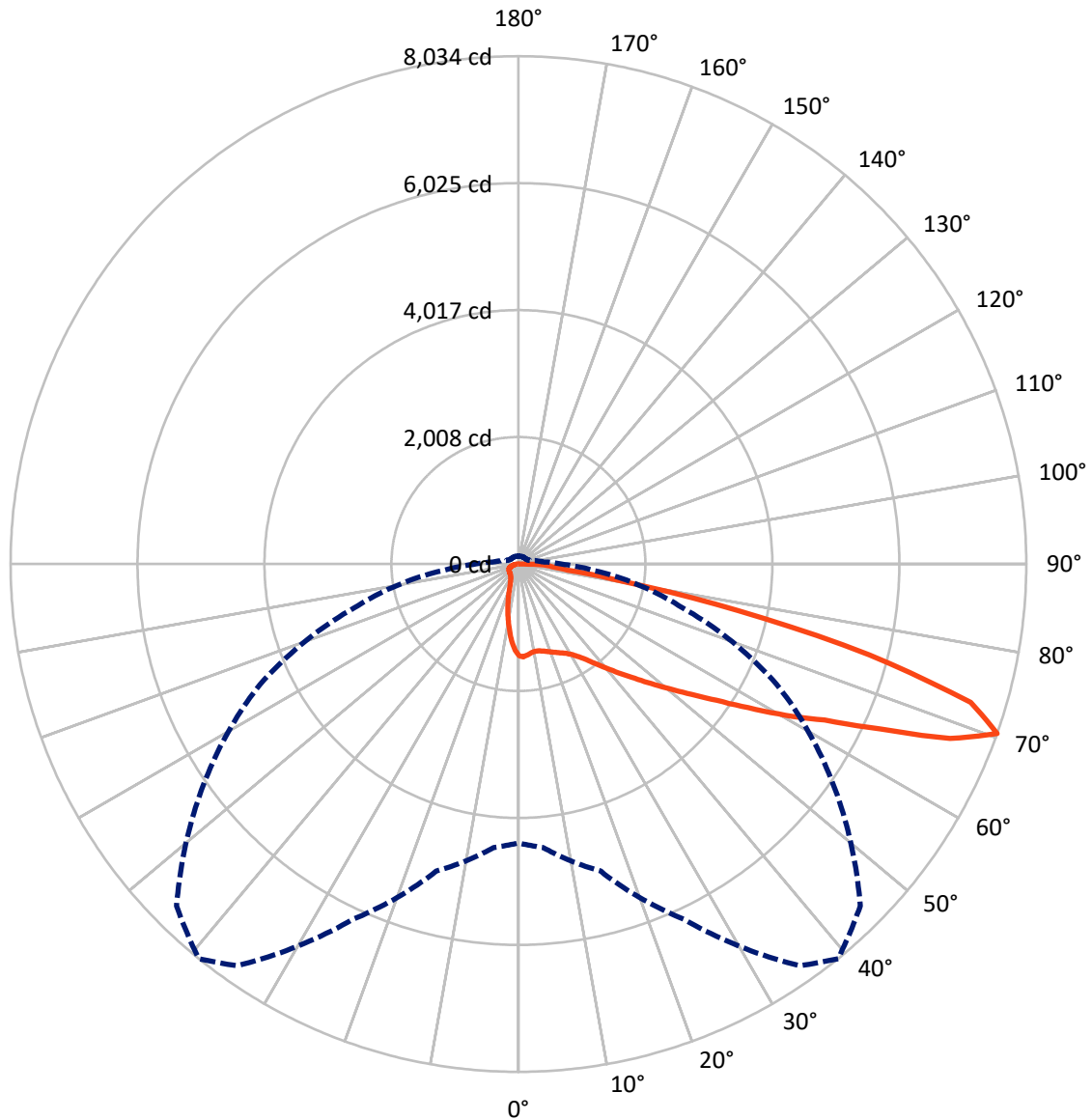
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.8	0.0	1087.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8476.8	0.0	8476.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	9564.6	0.0	9564.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.3
10°-20°	311.5	3.3
20°-30°	485.0	5.1
30°-40°	755.5	7.9
40°-50°	1268.4	13.3
50°-60°	2015.0	21.1
60°-70°	2687.8	28.1
70°-80°	1623.1	17.0
80°-90°	293.8	3.1
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°	9564.6	100.0
0°-180°	9564.6	100.0

Coefficient of Utilization



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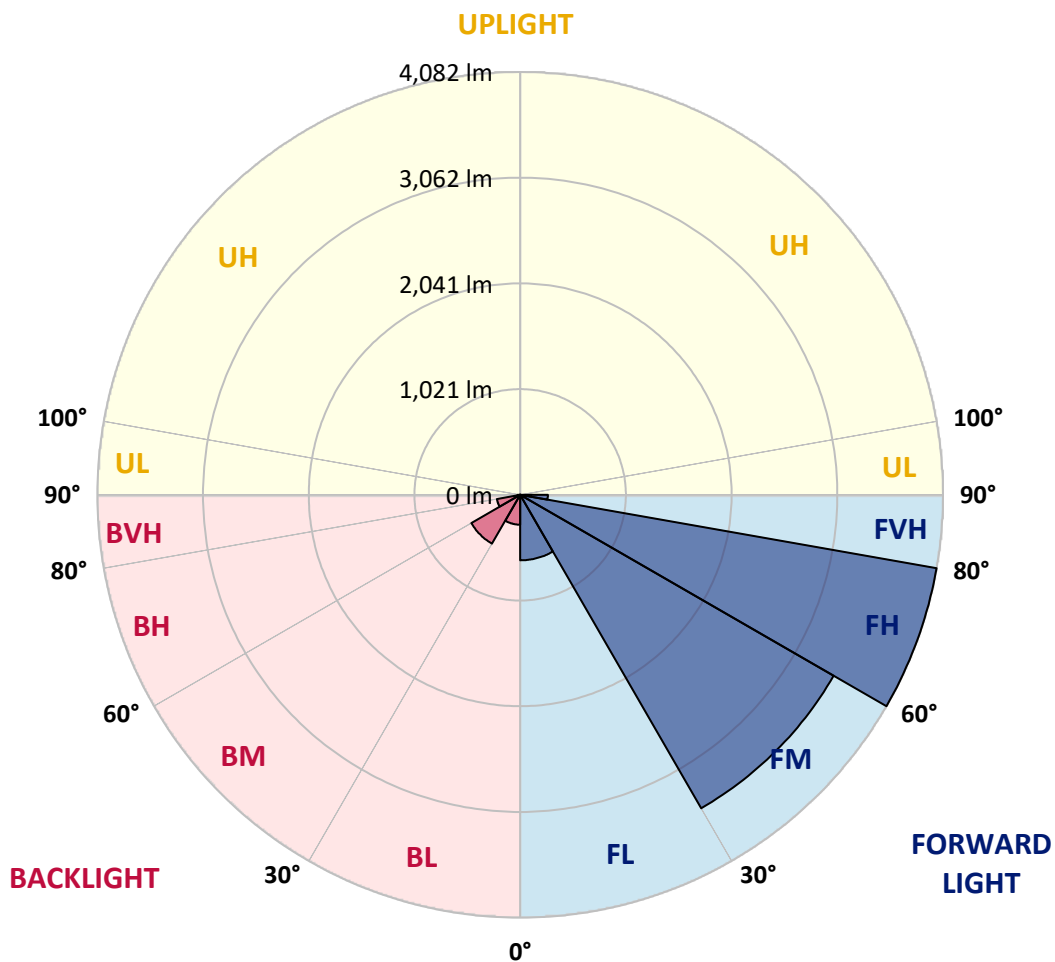
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.5	6.6			
FM	(30°-60°)	3494.5	36.5			
FH	(60°-80°)	4082.4	42.7			G2/5000
FVH	(80°-90°)	267.3	2.8			G3/500
BL	(0°-30°)	288.6	3.0	B1/500		
BM	(30°-60°)	544.4	5.7	B1/1000		
BH	(60°-80°)	228.4	2.4	B1/500		G1/500
BVH	(80°-90°)	26.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1480.2	1479.8	1475.9	1472.9	1470.5	1469.6	1471.5	1464.3	1457.9	1450.1	1441.8
5°	1469.1	1468.5	1462.3	1456.5	1450.5	1448.6	1448.2	1435.0	1427.2	1415.6	1400.0
7.5°	1456.9	1454.5	1446.2	1436.5	1426.3	1421.4	1416.6	1399.5	1390.8	1379.1	1361.1
10°	1444.3	1441.3	1433.6	1423.8	1414.1	1406.9	1398.6	1382.0	1372.8	1364.0	1343.1
12.5°	1431.1	1428.8	1426.8	1422.4	1415.6	1409.2	1403.0	1388.9	1379.1	1368.9	1344.6
15°	1429.2	1428.2	1432.6	1435.5	1431.6	1427.7	1421.0	1408.8	1398.6	1388.3	1356.7
17.5°	1444.7	1444.3	1455.5	1463.2	1461.3	1454.5	1445.2	1431.6	1423.3	1414.6	1375.3
20°	1478.8	1481.2	1494.8	1505.1	1495.3	1485.6	1470.5	1451.6	1447.2	1443.3	1394.2
22.5°	1543.0	1545.4	1555.2	1559.1	1533.7	1519.7	1498.7	1474.4	1471.5	1474.4	1417.0
25°	1643.2	1640.7	1639.3	1624.7	1578.5	1556.6	1529.8	1504.6	1506.0	1519.2	1449.1
27.5°	1775.9	1762.7	1742.4	1698.6	1625.2	1600.8	1568.3	1545.0	1554.2	1579.4	1497.3
30°	1913.5	1898.9	1851.7	1780.3	1686.4	1659.7	1623.2	1596.9	1621.3	1661.2	1561.4
32.5°	2041.0	2039.0	1970.0	1878.0	1771.0	1747.7	1711.3	1681.6	1721.0	1781.8	1657.8
35°	2180.0	2184.4	2101.8	1991.4	1885.3	1861.1	1834.8	1812.4	1864.9	1948.5	1797.3
37.5°	2328.8	2337.5	2239.9	2115.4	2015.6	2005.5	1989.8	1980.1	2061.3	2177.1	1992.3
40°	2527.7	2519.0	2383.3	2255.4	2175.6	2175.2	2170.3	2182.0	2317.2	2475.6	2242.7
42.5°	2740.7	2714.9	2535.5	2405.7	2351.2	2367.7	2377.4	2425.1	2625.0	2838.5	2548.2
45°	2970.2	2912.3	2693.5	2564.6	2546.2	2581.2	2614.3	2717.9	2987.2	3251.3	2882.7
47.5°	3153.6	3097.6	2856.9	2731.5	2771.8	2824.9	2888.5	3052.4	3392.8	3677.8	3212.9
50°	3298.0	3261.6	3021.8	2925.9	3020.4	3102.0	3206.1	3431.3	3814.9	4093.0	3518.7
52.5°	3438.0	3410.8	3188.1	3125.3	3312.1	3424.9	3566.4	3837.8	4247.7	4501.6	3776.0
55°	3564.5	3545.0	3367.0	3373.9	3655.4	3802.3	3980.3	4300.7	4719.4	4865.8	3993.9
57.5°	3707.0	3682.2	3571.3	3685.6	4096.5	4287.1	4518.6	4821.1	5161.9	5189.6	4159.7
60°	3850.4	3829.0	3797.9	4045.5	4656.7	4857.1	5076.4	5325.4	5610.8	5441.1	4150.0
62.5°	3974.9	3977.3	4032.3	4423.2	5205.2	5437.2	5704.6	5950.7	6016.8	5484.9	3843.1
65°	4185.9	4224.4	4388.3	4958.1	5977.4	6287.7	6615.9	6576.6	6129.1	5075.9	3185.2
67.5°	4436.8	4504.5	4836.6	5671.0	6953.4	7365.3	7492.2	6718.0	5679.3	4126.2	2270.4
70°	4411.6	4504.5	5030.2	6202.6	7757.8	8033.9	7648.8	6080.0	4509.8	2695.5	1206.0
72.5°	3917.5	4050.3	4635.8	5959.0	7504.4	7480.0	6640.3	4532.7	2679.4	1082.5	471.2
75°	2985.8	3120.0	3623.8	4707.7	5931.3	5727.0	4711.6	2503.9	1016.8	429.8	297.2
77.5°	1717.5	1821.7	2210.7	2887.1	3762.9	3553.3	2622.5	1113.6	495.0	299.5	232.0
80°	958.9	1016.8	1253.1	1464.7	1844.0	1690.3	1173.4	692.0	369.6	217.4	178.9
82.5°	758.1	809.7	1013.4	923.9	842.3	777.1	674.0	616.1	295.2	137.2	107.0
85°	662.4	711.5	857.8	727.5	575.3	527.6	547.6	606.4	229.6	82.7	91.5
87.5°	613.7	679.3	764.5	560.7	447.8	396.8	505.2	664.7	74.0	51.6	36.9
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°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1434.6	1426.8	1414.1	1403.0	1385.4	1376.2	1365.9	1358.7	1352.9	1347.9	1355.8
5°	1390.3	1375.7	1349.0	1320.2	1286.3	1259.5	1237.2	1216.2	1201.7	1191.8	1198.7
7.5°	1348.5	1324.6	1282.8	1230.8	1172.4	1122.8	1082.0	1046.0	1021.2	1005.2	1011.5
10°	1324.6	1295.0	1230.3	1148.6	1062.5	985.2	921.1	865.6	827.2	805.3	808.7
12.5°	1318.8	1280.4	1190.9	1078.6	960.9	853.4	763.0	686.2	632.2	604.0	605.0
15°	1323.2	1274.1	1154.0	1011.5	862.7	727.0	614.2	520.8	458.1	426.0	425.5
17.5°	1330.4	1269.2	1115.0	939.1	763.0	605.4	479.5	388.1	332.7	306.9	304.9
20°	1338.2	1261.4	1071.3	860.7	659.4	492.7	375.4	303.9	268.9	254.8	253.8
22.5°	1349.5	1254.6	1026.0	778.1	557.8	401.2	308.8	260.6	242.1	234.9	233.9
25°	1367.5	1251.2	977.9	692.0	466.4	335.5	268.9	239.3	228.5	223.7	223.2
27.5°	1397.6	1256.1	932.7	608.3	392.0	291.3	246.5	228.5	220.8	216.4	215.9
30°	1436.5	1271.1	885.1	529.1	334.1	261.2	232.9	221.3	214.9	210.5	210.5
32.5°	1501.2	1296.5	834.9	460.5	292.8	240.2	222.7	214.9	209.6	206.2	205.7
35°	1596.5	1344.1	788.3	403.7	263.1	225.2	214.0	208.2	204.3	202.3	202.3
37.5°	1735.0	1419.4	747.0	362.7	245.1	214.9	205.7	201.3	198.9	198.9	198.9
40°	1921.3	1523.6	713.4	335.5	234.9	207.7	199.4	196.0	194.6	195.0	195.0
42.5°	2151.4	1658.7	691.0	316.6	230.1	203.3	195.0	192.1	190.6	190.2	190.6
45°	2413.4	1812.4	688.5	302.5	225.2	200.4	192.1	189.1	186.3	184.3	184.3
47.5°	2668.3	1968.5	708.5	297.6	219.8	196.9	189.7	186.7	182.4	178.0	178.0
50°	2893.4	2101.2	735.3	299.5	217.9	192.1	185.8	184.3	177.5	172.7	172.2
52.5°	3072.3	2203.3	757.2	305.4	219.8	188.6	180.9	181.4	174.1	168.8	168.3
55°	3215.9	2270.4	751.4	311.2	224.1	186.7	176.6	177.5	171.7	166.3	166.3
57.5°	3278.6	2245.7	686.6	306.4	227.6	187.2	173.1	177.0	172.2	167.3	167.3
60°	3143.8	2025.3	565.6	285.0	223.2	185.8	171.7	178.9	178.5	173.6	173.1
62.5°	2736.3	1631.0	438.6	253.4	208.2	178.5	167.8	178.5	183.8	182.4	181.9
65°	2109.0	1161.8	335.0	219.3	187.7	166.3	157.5	167.3	174.6	176.6	176.0
67.5°	1368.9	712.0	258.2	187.2	164.9	152.2	144.4	148.8	150.3	150.3	149.2
70°	673.0	383.2	205.7	157.5	141.5	137.2	132.8	130.3	127.9	125.9	125.9
72.5°	332.2	250.4	169.2	133.3	122.0	120.1	119.2	116.2	114.3	111.8	110.9
75°	245.6	203.8	143.9	112.3	105.1	103.1	105.1	102.6	102.1	100.1	99.2
77.5°	201.8	173.6	124.0	96.3	89.9	86.5	89.5	89.9	90.4	87.6	86.5
80°	163.9	146.9	103.6	79.8	74.0	71.5	73.4	77.3	78.3	74.0	72.0
82.5°	118.2	120.1	83.7	62.2	57.4	55.4	59.3	64.1	65.2	58.8	57.4
85°	99.2	100.1	64.1	44.3	39.4	36.5	42.8	47.7	51.0	44.7	43.3
87.5°	41.3	58.8	36.9	24.8	21.9	18.9	22.8	25.3	30.6	28.2	27.7
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)