

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: P191040

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8337.1 lumens
Efficiency: N/A
Efficacy: 98.1 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): 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

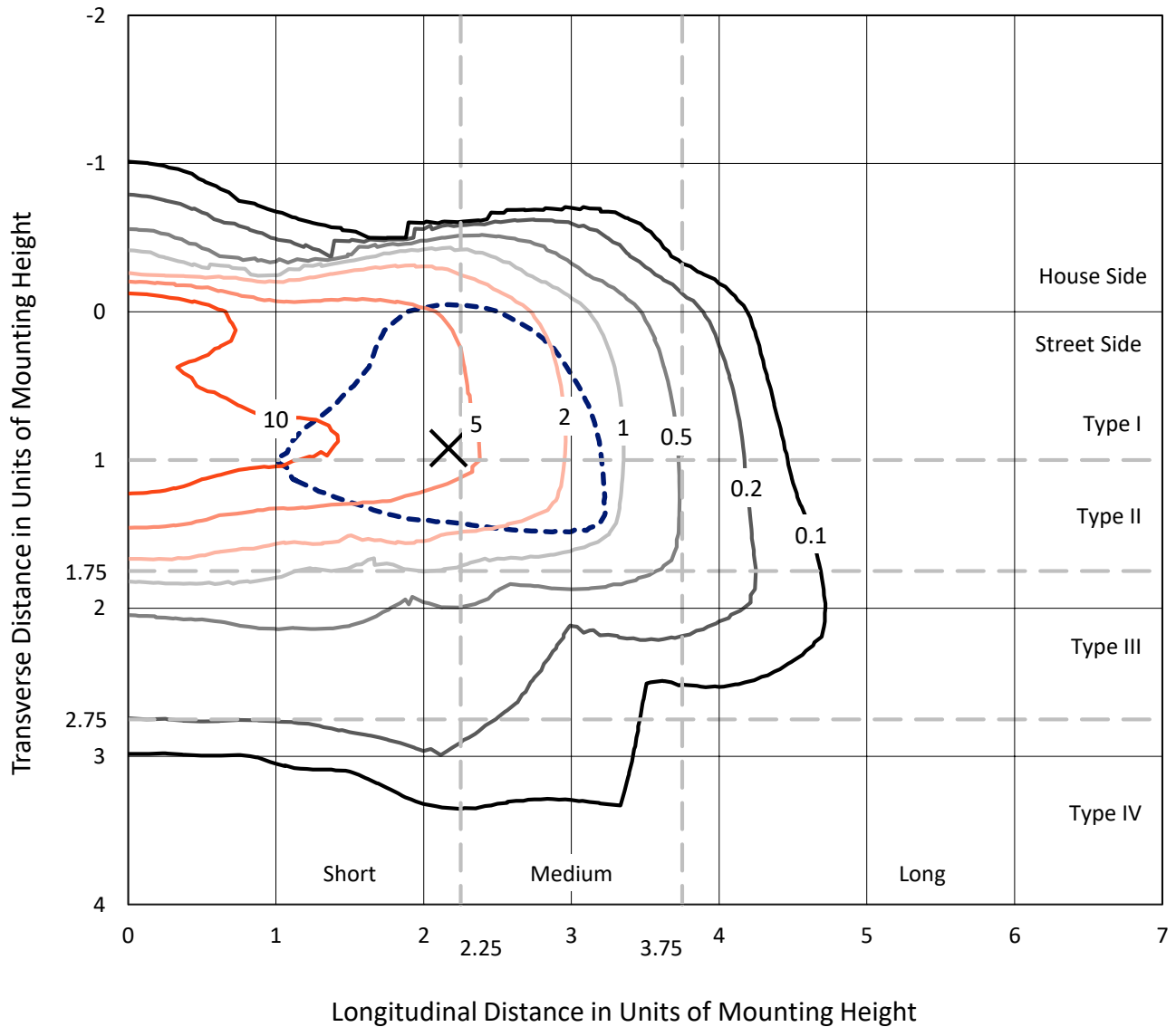


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Iso-Footcandle Lines of Horizontal Illumination

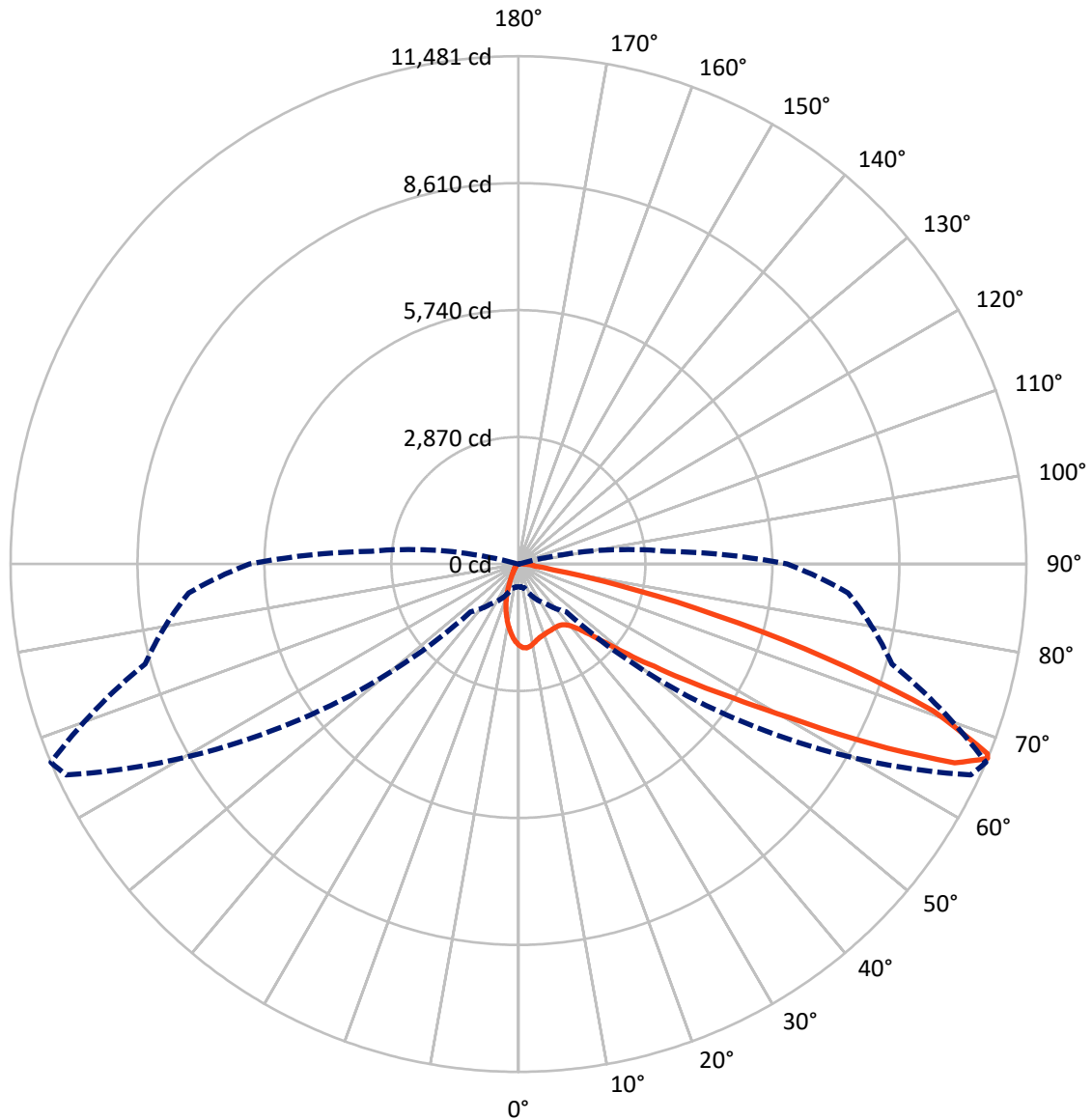
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.6	0.0	865.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7471.4	0.0	7471.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	8337.1	0.0	8337.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	1.8
10°-20°	318.4	3.8
20°-30°	463.0	5.6
30°-40°	722.2	8.7
40°-50°	1279.4	15.3
50°-60°	2024.5	24.3
60°-70°	2318.8	27.8
70°-80°	961.8	11.5
80°-90°	99.4	1.2
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°	8337.1	100.0
0°-180°	8337.1	100.0

Coefficient of Utilization



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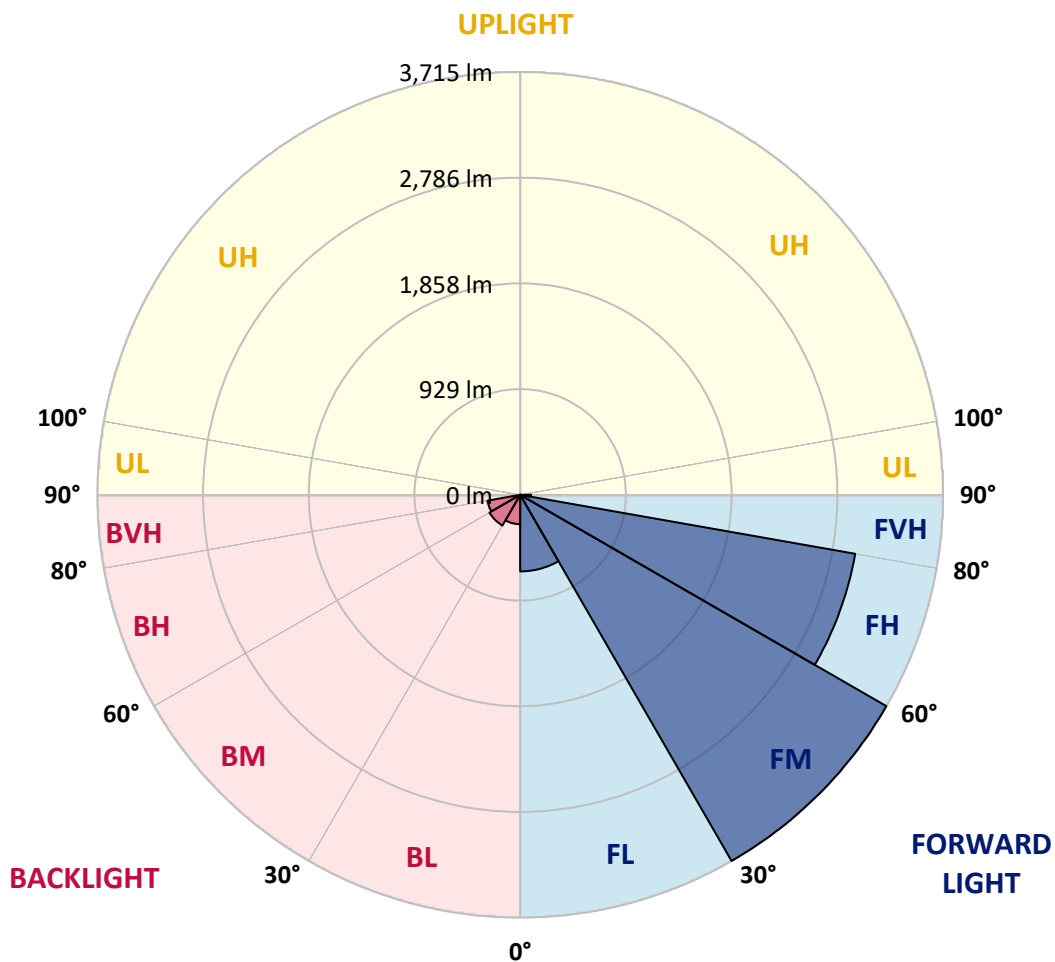
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.7	8.1			
FM (30°-60°)	3715.0	44.6			
FH (60°-80°)	2988.9	35.9			G2/5000
FVH (80°-90°)	94.9	1.1			G1/100
BL (0°-30°)	258.3	3.1	B1/500		
BM (30°-60°)	311.1	3.7	B1/1000		
BH (60°-80°)	291.8	3.5	B1/500		G1/500
BVH (80°-90°)	4.5	0.1			G0/10
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°	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7
2.5°	1900.8	1904.7	1904.3	1907.2	1914.0	1914.5	1907.7	1894.5	1891.6	1874.7	1845.0
5°	1753.0	1764.2	1771.0	1798.8	1829.9	1867.3	1895.5	1905.8	1904.3	1892.2	1847.3
7.5°	1584.3	1595.5	1603.3	1635.8	1677.2	1741.4	1814.8	1875.1	1880.5	1893.6	1845.4
10°	1471.9	1473.9	1484.6	1515.7	1559.0	1624.7	1712.2	1817.7	1833.7	1881.9	1840.6
12.5°	1379.6	1381.1	1395.1	1428.7	1474.9	1541.0	1632.9	1755.0	1779.8	1867.3	1839.6
15°	1314.0	1319.3	1331.9	1367.0	1416.1	1481.7	1576.1	1708.8	1738.4	1862.0	1848.4
17.5°	1292.1	1297.9	1301.8	1327.1	1371.8	1436.0	1532.8	1678.7	1712.2	1864.8	1865.4
20°	1314.9	1319.3	1310.5	1316.8	1344.6	1402.0	1496.3	1652.9	1692.8	1868.3	1887.2
22.5°	1400.0	1402.0	1378.1	1350.4	1345.6	1377.1	1467.6	1632.4	1675.3	1877.5	1913.0
25°	1545.9	1542.5	1503.5	1443.8	1387.3	1372.8	1450.5	1619.8	1666.5	1887.2	1939.8
27.5°	1721.9	1726.7	1673.2	1586.3	1478.8	1402.0	1448.2	1614.4	1662.6	1894.1	1963.1
30°	1935.9	1942.7	1881.4	1772.1	1617.9	1473.9	1470.5	1613.5	1660.1	1889.7	1965.1
32.5°	2154.2	2162.5	2114.3	2001.5	1803.6	1594.5	1521.1	1624.1	1665.1	1874.7	1953.8
35°	2382.8	2394.4	2362.4	2265.6	2055.5	1768.6	1610.1	1656.8	1687.9	1873.1	1942.7
37.5°	2698.3	2709.1	2648.7	2546.1	2360.4	2002.0	1753.0	1718.0	1741.9	1896.4	1945.7
40°	3169.6	3168.1	3012.5	2855.5	2695.5	2298.7	1953.8	1828.9	1841.1	1967.0	1981.6
42.5°	3683.1	3680.7	3450.6	3211.9	3067.4	2663.9	2218.0	2020.5	2012.2	2096.8	2075.0
45°	4078.9	4078.4	3890.7	3621.9	3515.4	3083.0	2559.3	2287.0	2274.3	2307.9	2247.1
47.5°	4247.7	4250.6	4156.2	3967.1	4011.8	3650.0	2989.7	2673.1	2654.1	2640.5	2548.1
50°	4116.4	4122.2	4130.0	4093.0	4376.1	4412.0	3566.8	3217.3	3208.0	3147.2	3002.8
52.5°	3687.4	3717.1	3808.5	3925.8	4502.5	5143.4	4471.8	3893.1	3843.5	3778.9	3619.9
55°	2964.8	2997.5	3171.0	3455.5	4314.3	5623.9	5740.1	4764.6	4681.9	4488.8	4259.4
57.5°	1962.1	2012.8	2264.6	2626.4	3767.7	5701.1	7005.4	5973.9	5686.1	5157.5	4898.8
60°	1081.0	1129.6	1402.9	1730.6	2721.3	5318.9	7856.4	7548.6	7039.8	5904.9	5675.3
62.5°	665.7	692.0	893.8	1198.7	1631.9	4198.1	8032.4	9527.3	8938.3	6867.3	6613.4
65°	530.1	541.2	640.0	979.9	1169.9	2497.0	7464.0	11035.7	10839.2	8032.4	7453.2
67°	514.4	518.8	565.6	841.3	1102.8	1530.8	6253.1	11281.2	11480.6	8737.5	7479.5
67.5°	517.9	522.7	567.0	802.8	1100.9	1406.8	5835.8	11184.4	11436.4	8793.4	7363.3
70°	499.4	514.4	649.2	802.4	1047.0	1169.0	3494.9	9690.6	9952.7	8170.5	6247.8
72.5°	177.0	178.0	280.6	649.2	1138.3	1181.7	1755.0	7104.1	7298.1	6250.1	4504.5
75°	105.1	89.5	93.4	184.7	1087.8	1147.6	1012.4	4539.4	4611.9	3581.5	2281.2
77.5°	72.4	63.2	65.2	81.7	414.3	1131.6	804.3	2367.2	2289.9	1256.1	485.8
80°	41.3	36.5	38.9	71.5	150.8	1055.7	758.6	959.9	818.4	213.0	134.2
82.5°	21.9	18.5	22.4	58.8	105.1	658.0	760.1	463.9	367.6	72.0	91.5
85°	7.8	6.3	10.7	40.4	70.1	201.8	704.6	389.9	306.4	35.0	69.6
87.5°	1.4	1.4	4.4	16.6	28.2	61.8	416.8	231.5	155.1	20.9	47.7
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°	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7
2.5°	1832.8	1811.9	1783.7	1749.1	1708.3	1672.3	1645.6	1617.9	1612.1	1602.2	1600.8
5°	1820.6	1784.6	1714.7	1634.4	1548.8	1471.5	1408.7	1352.9	1328.0	1306.6	1304.2
7.5°	1802.6	1748.6	1629.6	1500.2	1366.5	1244.8	1141.8	1068.9	1001.8	969.7	964.7
10°	1781.8	1704.4	1533.7	1354.3	1169.5	997.9	844.7	716.3	638.5	592.3	586.5
12.5°	1762.2	1661.2	1436.0	1203.1	957.5	727.9	531.0	408.5	326.7	293.7	289.8
15°	1753.0	1626.1	1344.6	1048.4	735.7	463.4	290.3	224.6	197.9	190.2	189.7
17.5°	1752.1	1596.4	1255.1	888.4	515.5	269.4	189.1	172.7	167.3	165.3	165.3
20°	1751.6	1568.3	1165.7	722.6	327.2	179.4	157.5	153.6	149.8	147.3	147.3
22.5°	1756.9	1543.0	1072.3	553.4	206.2	145.4	138.6	134.7	129.8	126.4	125.9
25°	1762.2	1523.5	976.9	393.9	149.2	126.4	119.6	114.3	107.5	103.1	102.6
27.5°	1763.3	1499.2	874.8	263.6	125.0	110.4	101.7	93.4	85.6	81.2	80.7
30°	1748.6	1458.3	761.5	178.0	110.4	95.7	84.1	75.4	68.1	64.7	64.7
32.5°	1720.0	1407.8	637.0	134.2	98.2	82.1	69.6	61.3	56.4	54.9	54.4
35°	1694.2	1353.4	509.1	113.8	88.0	69.6	56.9	51.6	48.6	48.2	47.7
37.5°	1679.2	1309.6	389.0	103.1	78.3	58.3	48.2	44.3	42.8	41.8	42.4
40°	1690.8	1273.1	287.3	94.3	68.5	48.6	40.8	38.9	37.4	36.9	36.9
42.5°	1741.9	1266.7	213.5	86.5	59.3	40.4	35.5	34.1	33.0	32.5	33.0
45°	1876.1	1305.7	165.8	79.3	50.1	34.1	30.2	29.7	29.2	29.2	29.2
47.5°	2077.9	1385.9	138.1	71.0	41.8	29.2	26.3	25.8	25.3	25.8	25.8
50°	2419.7	1532.8	123.5	62.7	34.6	24.8	22.4	22.4	22.4	22.4	22.8
52.5°	2939.6	1821.6	113.8	54.4	28.2	20.9	18.9	18.9	19.4	19.4	19.9
55°	3518.7	2204.8	105.1	46.2	23.8	17.5	15.5	16.1	16.6	17.0	17.0
57.5°	4147.0	2629.3	97.7	38.0	20.5	14.1	13.1	13.6	14.1	15.0	15.0
60°	4905.2	3088.9	87.1	29.7	17.0	11.2	10.2	11.2	12.7	13.6	14.1
62.5°	5737.6	3533.3	73.4	23.3	14.1	8.8	8.3	10.2	12.2	13.1	13.6
65°	6306.6	3672.9	56.4	18.9	10.7	6.3	6.9	9.2	11.7	13.1	13.1
67°	6076.1	3330.0	46.2	16.1	8.8	4.9	6.3	9.2	11.7	12.7	13.1
67.5°	5916.1	3195.8	44.3	15.5	8.3	4.9	6.3	9.2	11.7	13.1	13.1
70°	4813.7	2400.8	36.9	11.7	6.9	4.4	5.3	8.8	11.2	12.7	12.7
72.5°	3344.6	1480.2	33.0	8.3	5.8	3.9	4.9	8.3	10.7	12.2	12.7
75°	1590.2	535.9	28.2	6.3	5.3	3.4	4.4	8.3	10.7	12.2	12.2
77.5°	324.4	124.5	22.8	5.3	4.4	3.4	3.9	7.8	10.2	11.7	11.7
80°	106.5	48.2	17.0	4.9	4.4	3.4	3.9	7.3	10.2	11.2	11.7
82.5°	76.8	24.3	11.2	4.9	4.4	3.4	3.4	7.3	9.7	11.2	11.2
85°	58.8	17.0	7.3	4.9	4.4	3.4	3.4	6.9	9.2	10.7	10.7
87.5°	38.9	6.9	5.8	4.9	4.4	3.4	3.4	6.9	8.8	10.2	10.7
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)