

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: P269077

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7304.2 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

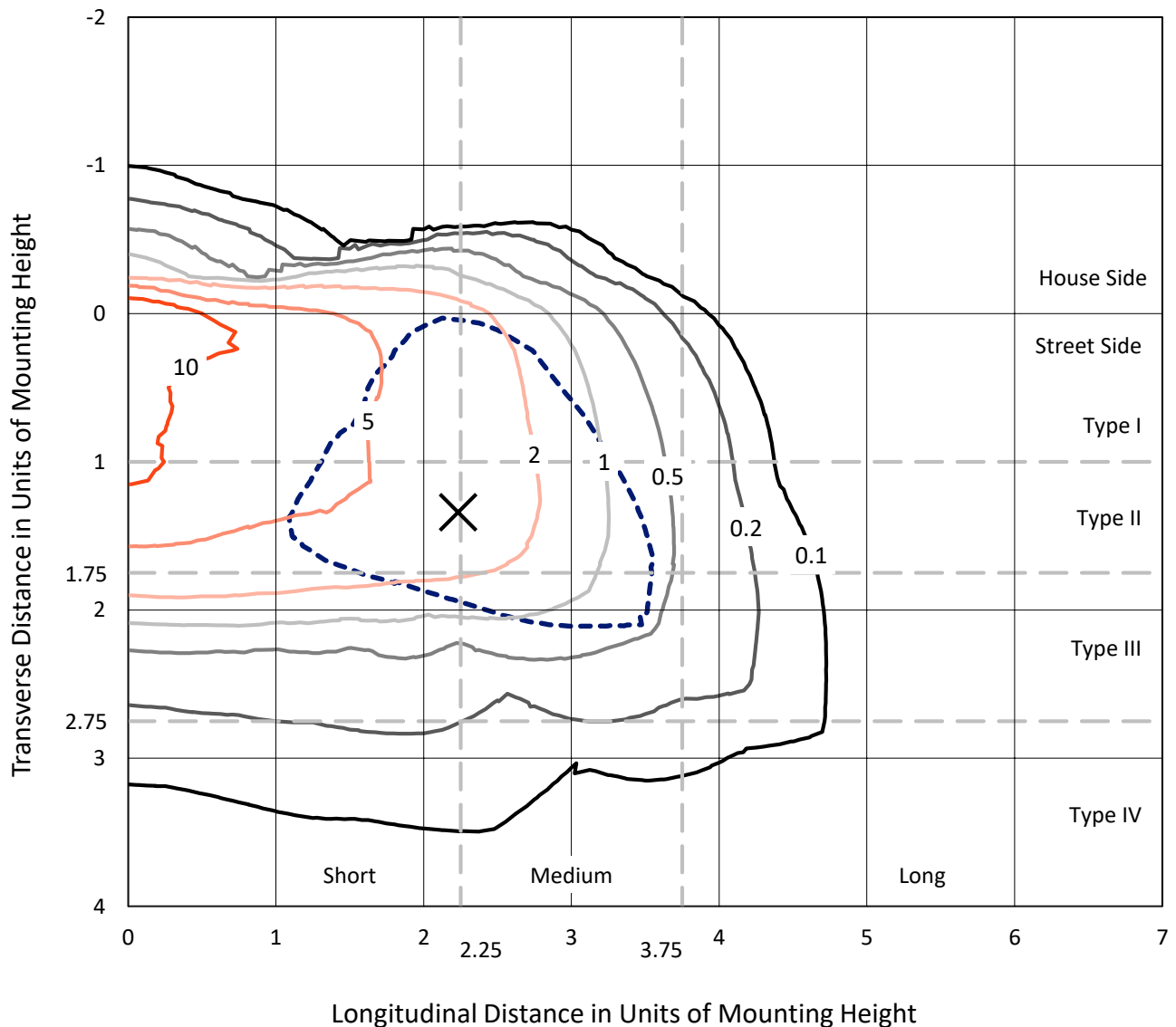


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

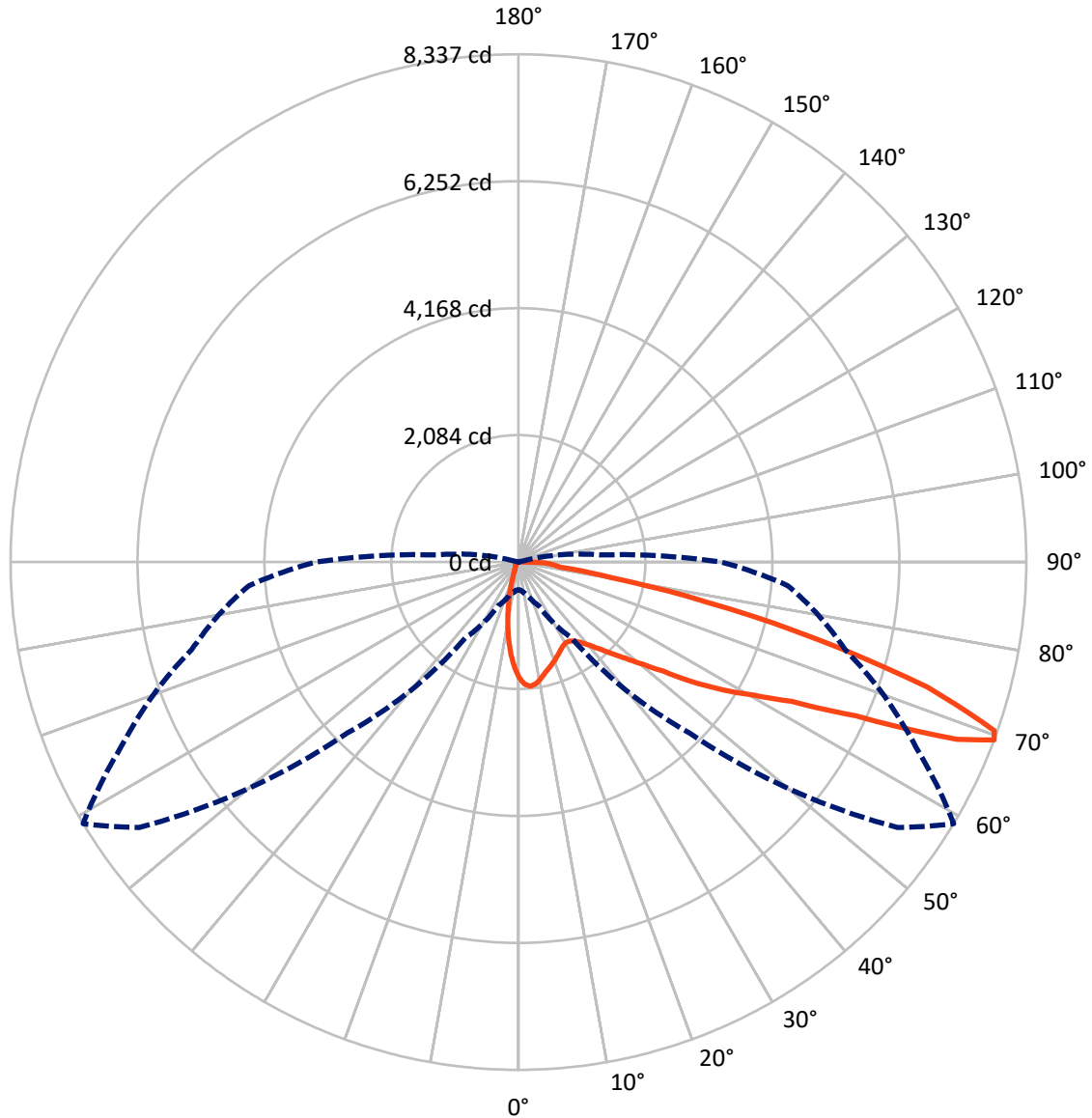


Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.8	0.0	594.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6709.3	0.0	6709.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	7304.2	0.0	7304.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	2.1
10°-20°	318.9	4.4
20°-30°	429.1	5.9
30°-40°	623.0	8.5
40°-50°	1037.3	14.2
50°-60°	1618.2	22.2
60°-70°	2002.4	27.4
70°-80°	1014.8	13.9
80°-90°	106.2	1.5
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°	7304.2	100.0
0°-180°	7304.2	100.0

Coefficient of Utilization



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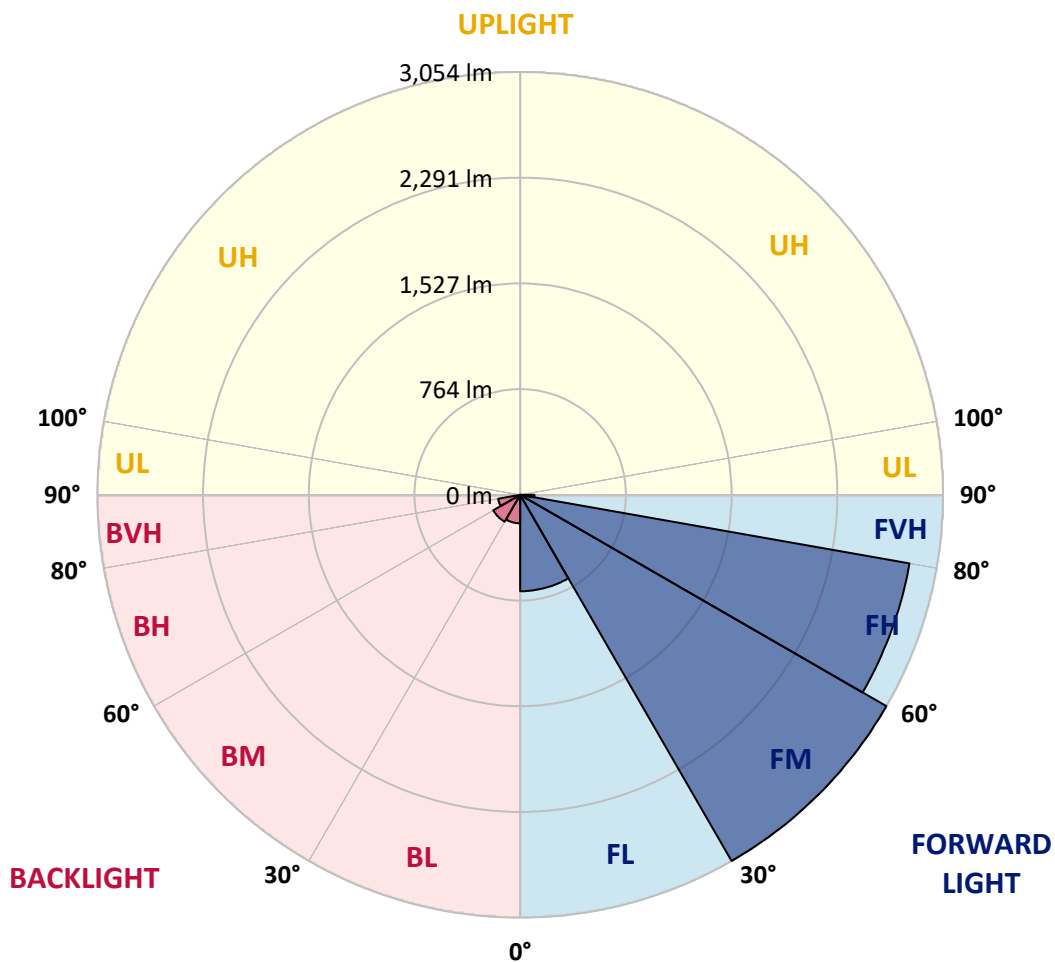
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.4	9.5			
FM (30°-60°)	3054.4	41.8			
FH (60°-80°)	2855.7	39.1			G2/5000
FVH (80°-90°)	102.9	1.4			G2/225
BL (0°-30°)	205.9	2.8	B1/500		
BM (30°-60°)	224.1	3.1	B1/1000		
BH (60°-80°)	161.5	2.2	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2
2.5°	2083.8	2082.9	2073.8	2069.7	2062.2	2046.6	2022.3	2009.4	1988.8	1952.8	1904.4
5°	2064.8	2074.6	2080.0	2080.5	2085.9	2080.0	2058.1	2047.3	2018.9	1961.1	1874.4
7.5°	1935.8	1939.6	1954.9	1968.0	1993.7	2018.0	2025.9	2021.4	2004.5	1942.4	1827.2
10°	1797.9	1801.6	1819.7	1837.2	1871.9	1909.4	1949.1	1957.3	1964.4	1916.1	1781.8
12.5°	1678.9	1682.6	1701.3	1723.9	1764.5	1810.8	1872.2	1885.9	1916.9	1890.8	1745.4
15°	1576.5	1578.2	1596.4	1624.5	1672.7	1732.2	1802.1	1824.0	1871.4	1873.1	1713.6
17.5°	1489.4	1493.5	1504.8	1531.5	1584.4	1657.9	1739.3	1770.6	1826.4	1858.2	1682.6
20°	1436.1	1440.3	1439.9	1454.6	1502.1	1580.7	1676.4	1714.1	1781.8	1843.0	1654.9
22.5°	1425.8	1425.8	1415.0	1412.9	1441.2	1506.7	1611.2	1657.1	1741.8	1836.3	1635.6
25°	1462.5	1461.0	1434.1	1412.1	1413.5	1452.6	1548.0	1602.5	1707.9	1840.8	1625.3
27.5°	1540.2	1538.1	1504.2	1462.5	1429.1	1428.7	1500.1	1558.7	1681.1	1862.4	1629.3
30°	1647.6	1646.8	1610.0	1557.5	1496.8	1441.2	1483.6	1536.9	1663.8	1901.2	1638.9
32.5°	1764.9	1763.6	1736.0	1680.5	1603.8	1496.8	1501.0	1545.5	1668.6	1952.8	1662.0
35°	1889.1	1887.1	1875.1	1826.9	1742.2	1599.6	1557.9	1592.7	1700.0	2030.0	1707.5
37.5°	2023.8	2025.9	2034.7	1988.3	1899.6	1743.8	1653.4	1676.9	1763.3	2134.9	1781.3
40°	2222.5	2222.0	2225.0	2164.2	2078.8	1920.1	1786.8	1794.3	1869.0	2274.1	1893.7
42.5°	2583.0	2558.0	2481.5	2357.6	2271.6	2121.7	1954.9	1947.0	1998.2	2446.4	2051.1
45°	3067.6	3013.9	2815.6	2578.1	2468.3	2348.9	2161.9	2136.6	2169.2	2653.4	2245.3
47.5°	3484.3	3428.7	3148.1	2807.8	2676.9	2564.5	2404.3	2358.8	2369.5	2885.0	2491.4
50°	3626.0	3598.7	3353.8	3007.6	2878.8	2835.9	2685.6	2630.1	2614.8	3153.1	2776.8
52.5°	3576.8	3574.7	3411.7	3137.4	3063.8	3116.7	3039.4	2975.5	2919.3	3435.6	3067.2
55°	3498.0	3508.3	3435.2	3251.0	3248.5	3373.2	3523.5	3470.3	3307.6	3742.5	3317.5
57.5°	3280.3	3324.4	3422.0	3465.8	3567.3	3695.0	3926.8	3958.0	3765.5	3977.4	3525.2
60°	2661.6	2758.7	3077.6	3496.7	3978.4	4296.4	4413.3	4440.1	4141.5	4172.8	3805.7
62.5°	1889.1	1988.3	2392.6	3101.8	3984.5	5086.5	5138.0	5032.8	4555.3	4462.4	4289.3
65°	1002.9	1079.3	1409.7	2239.0	3454.6	5269.8	6405.6	6091.8	5285.5	5031.9	4914.3
67.5°	513.0	536.1	667.5	1095.8	2374.8	4680.9	7541.9	7763.0	6544.1	5597.0	4884.1
69°	454.0	467.6	554.8	792.1	1520.8	3964.7	7597.2	8336.6	7202.8	5549.9	4438.4
70°	439.5	451.5	530.8	716.9	1188.6	3324.8	7385.3	8286.2	7371.3	5370.6	4105.6
72.5°	372.9	383.2	472.5	633.6	966.0	1650.5	5999.3	7021.5	6614.7	4474.0	2971.8
75°	249.5	283.3	453.6	593.9	898.8	937.7	3955.1	5074.0	4713.4	3017.5	1548.0
77.5°	59.8	64.4	128.1	472.5	821.9	825.3	2034.2	3154.3	2572.7	1075.5	365.9
80°	32.2	31.0	35.9	93.8	765.4	774.3	915.7	1531.2	918.5	178.5	120.6
82.5°	22.6	21.5	23.1	39.3	240.7	705.4	662.5	693.0	380.8	68.6	54.1
85°	8.3	7.8	12.8	35.6	75.5	405.6	680.6	571.6	308.6	31.4	39.6
87.5°	2.9	2.4	4.9	19.5	23.1	172.7	420.0	432.1	121.5	19.0	18.5
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°	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2
2.5°	1884.3	1858.7	1811.5	1763.3	1718.5	1664.9	1638.1	1611.6	1600.5	1596.4	1577.0
5°	1829.7	1786.4	1686.4	1586.0	1493.5	1395.2	1330.4	1278.3	1247.7	1233.0	1209.4
7.5°	1759.9	1688.9	1537.3	1382.4	1238.3	1096.2	990.9	910.0	854.2	827.2	802.9
10°	1692.1	1597.5	1382.0	1170.9	975.2	786.8	641.4	536.1	468.7	437.8	418.0
12.5°	1631.5	1508.9	1232.0	964.8	719.2	498.5	350.7	266.8	225.0	210.7	203.6
15°	1577.3	1427.0	1090.5	769.0	487.1	285.0	191.7	163.1	156.6	156.6	155.8
17.5°	1526.1	1346.9	953.7	585.2	305.7	174.4	145.9	142.1	142.1	143.6	143.6
20°	1477.1	1270.6	821.5	420.0	192.4	138.3	131.7	131.0	131.7	133.8	133.8
22.5°	1434.9	1201.2	698.1	288.3	142.9	124.8	121.5	120.3	120.6	121.8	122.7
25°	1403.5	1142.5	581.6	195.3	123.1	113.5	109.9	107.7	106.2	106.2	107.0
27.5°	1383.7	1092.9	468.7	142.1	110.8	103.2	97.5	94.1	90.5	88.5	89.2
30°	1369.1	1045.7	363.1	116.2	99.2	91.6	84.3	79.0	73.5	71.1	71.9
32.5°	1363.8	1007.8	271.4	102.4	88.8	80.6	71.4	64.4	58.7	56.7	57.0
35°	1378.3	977.6	198.6	92.5	80.6	70.2	59.8	52.0	47.5	46.3	46.7
37.5°	1416.3	961.5	148.7	84.3	73.1	61.5	49.9	42.5	39.6	39.6	40.1
40°	1488.1	961.1	119.4	78.5	66.6	53.3	41.3	35.9	34.2	35.2	35.6
42.5°	1593.1	983.0	104.1	73.1	60.7	45.5	34.2	30.5	30.2	31.0	31.4
45°	1736.3	1023.1	95.8	68.6	54.4	38.0	28.9	26.4	26.4	27.7	28.0
47.5°	1912.0	1081.6	88.8	64.0	48.2	31.8	24.8	23.1	23.5	24.8	25.2
50°	2123.5	1155.7	81.7	59.1	43.7	26.4	21.5	20.2	20.7	22.3	22.6
52.5°	2364.2	1255.2	75.9	54.4	38.0	21.9	18.1	17.3	18.1	19.9	20.2
55°	2570.7	1344.5	69.0	50.8	30.5	18.1	14.8	14.8	15.7	17.7	18.1
57.5°	2769.4	1437.7	62.8	43.7	24.0	14.5	12.3	12.8	14.1	16.1	16.4
60°	3061.0	1596.0	55.3	36.8	18.1	11.6	10.3	10.7	12.3	14.5	14.8
62.5°	3556.2	1836.8	47.9	30.5	14.1	9.2	8.3	9.2	11.1	13.7	14.1
65°	4003.0	1934.6	39.3	25.6	10.7	7.0	7.0	8.3	10.7	13.2	13.7
67.5°	3754.0	1628.5	30.5	20.2	8.3	5.4	5.7	7.8	10.3	13.2	13.7
69°	3320.0	1331.6	26.1	16.1	7.0	4.9	5.4	7.8	10.3	12.8	13.2
70°	2981.7	1124.3	23.1	13.7	6.2	4.9	5.4	7.5	10.3	12.8	13.2
72.5°	1997.0	607.2	18.5	9.9	5.7	4.5	4.5	7.5	9.9	12.3	12.8
75°	858.3	167.8	14.8	7.0	4.9	4.1	4.1	7.0	9.5	11.9	12.8
77.5°	156.9	42.5	11.9	6.2	4.9	4.1	3.8	6.6	9.2	11.6	11.9
80°	62.3	21.1	9.5	5.4	4.5	3.8	3.4	6.2	8.7	11.1	11.6
82.5°	37.5	11.9	7.8	4.9	4.5	3.4	2.9	5.4	8.3	10.7	11.1
85°	30.5	8.3	6.2	4.9	4.1	3.4	2.4	4.9	7.5	10.3	10.7
87.5°	14.8	5.7	5.7	4.5	4.1	3.4	2.4	4.5	7.0	9.9	10.3
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)