

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: P192771

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192771
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-03-LED-E1-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 9591.9 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

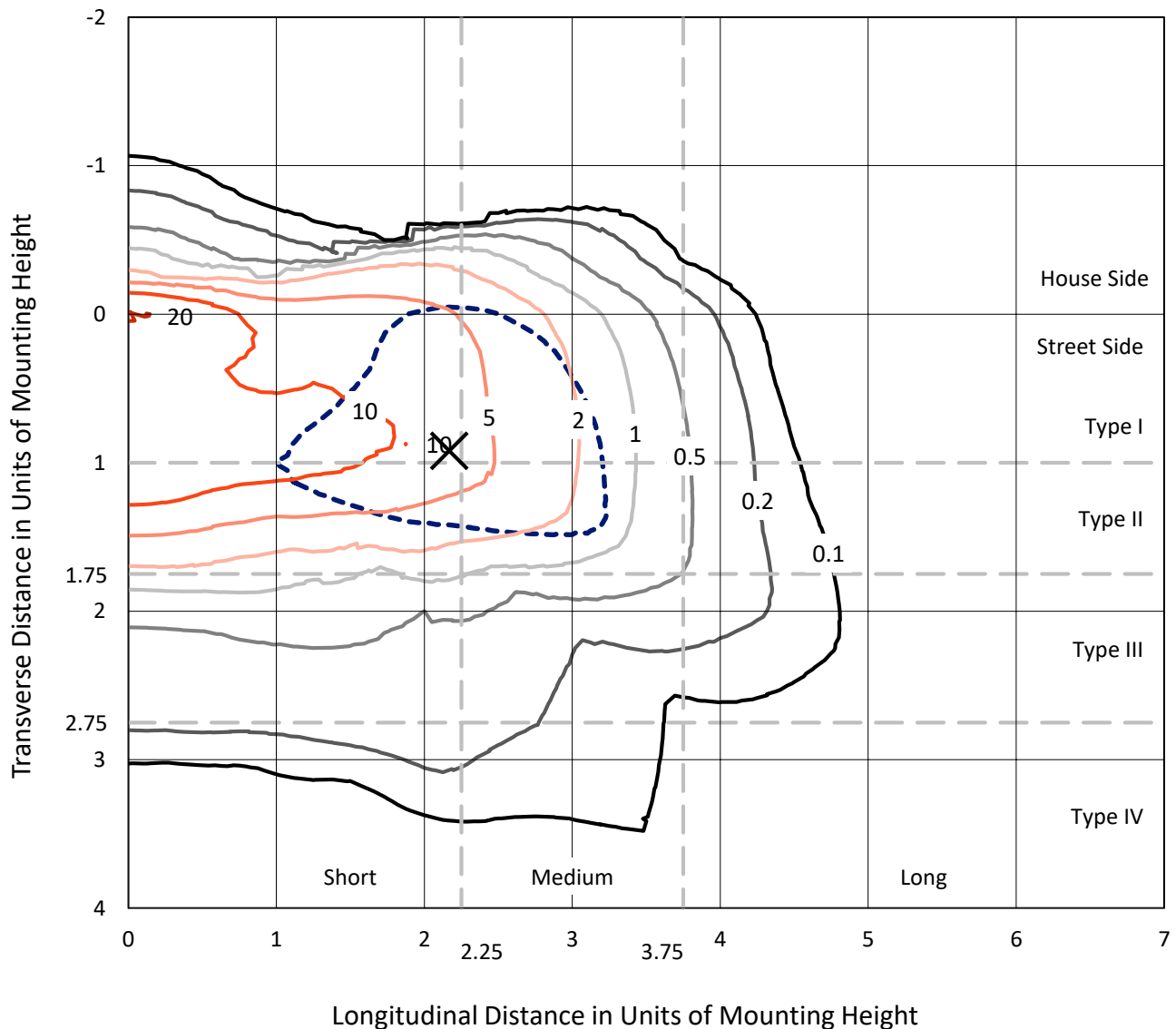


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

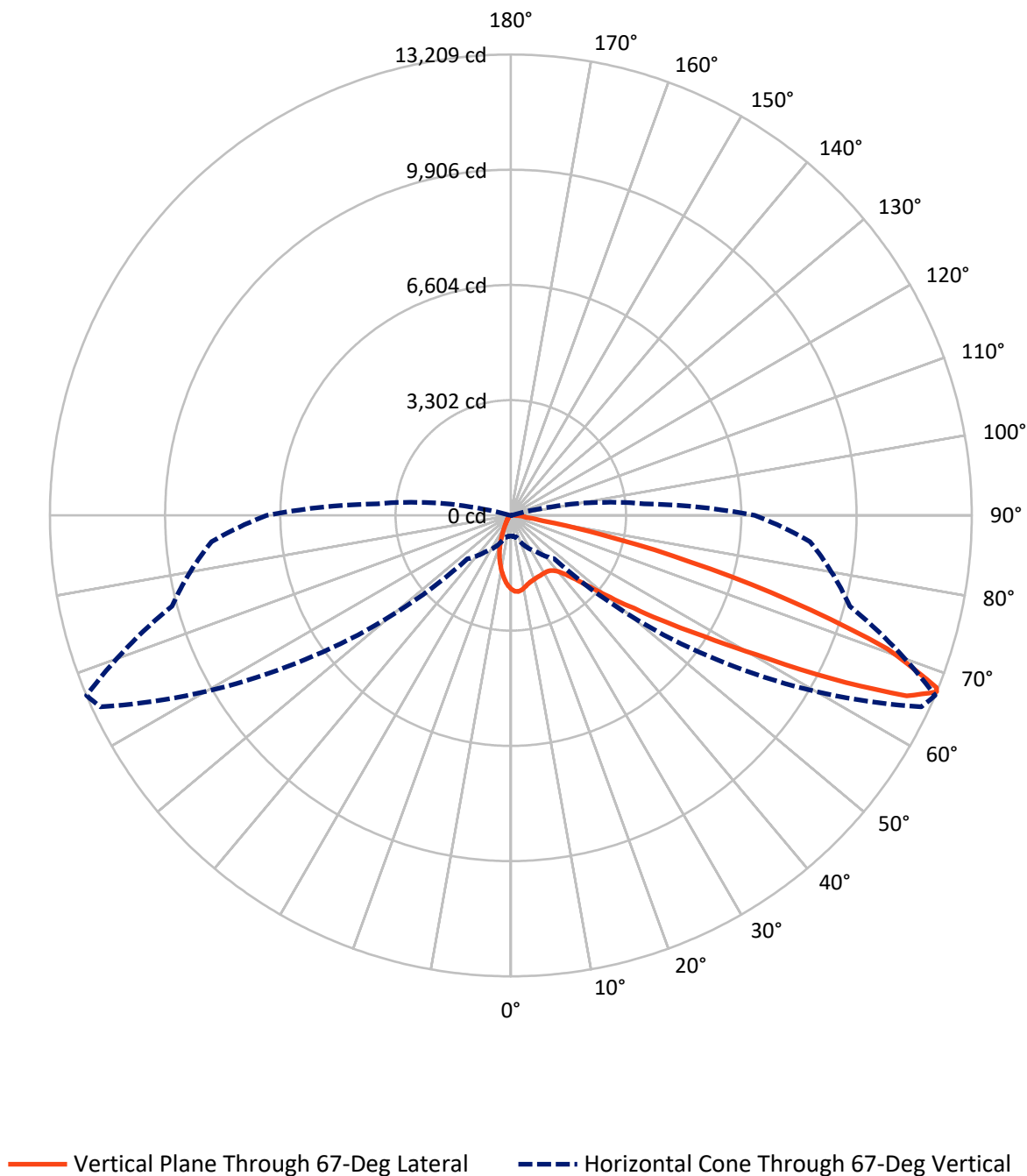


Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.9	0.0	995.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8595.9	0.0	8595.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	9591.9	0.0	9591.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	1.8
10°-20°	366.3	3.8
20°-30°	532.6	5.6
30°-40°	830.9	8.7
40°-50°	1471.9	15.3
50°-60°	2329.2	24.3
60°-70°	2667.8	27.8
70°-80°	1106.6	11.5
80°-90°	114.3	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°	9591.9	100.0
0°-180°	9591.9	100.0

Coefficient of Utilization



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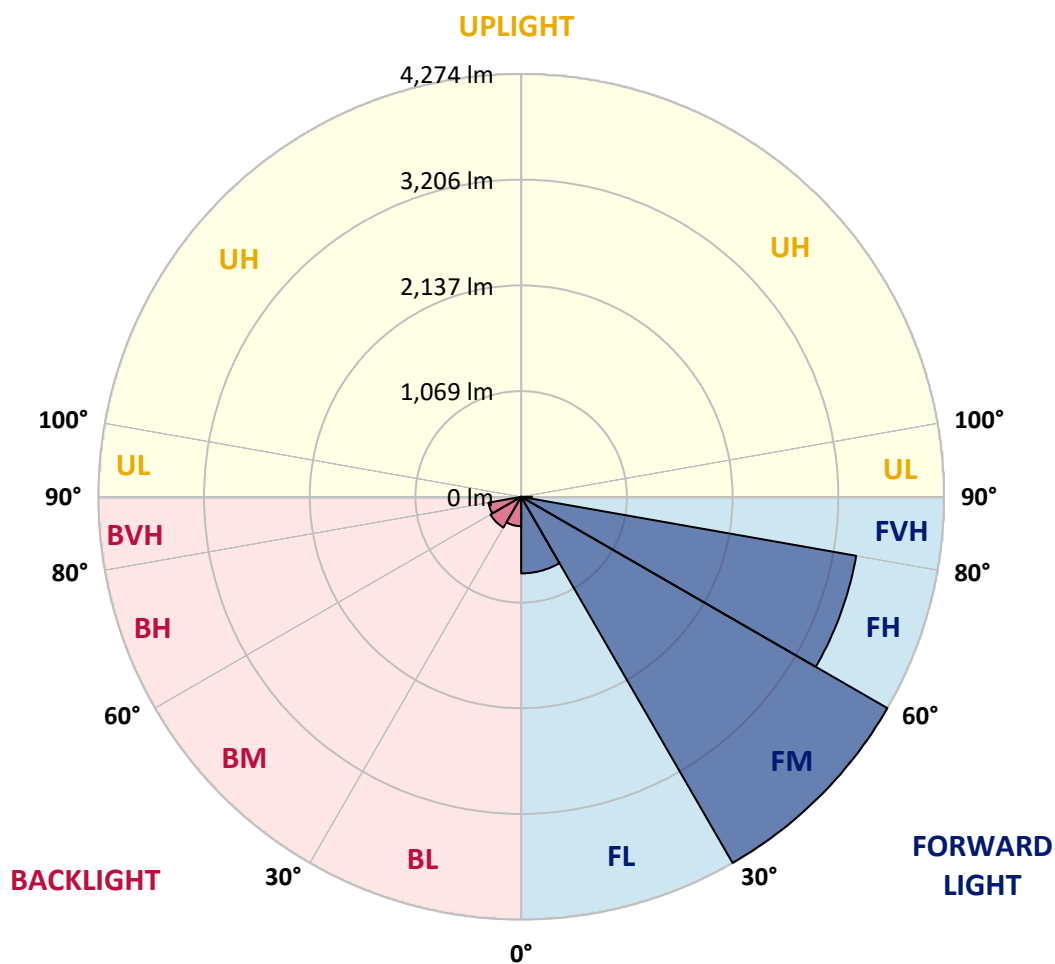
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.9	8.1			
FM	(30°-60°)	4274.2	44.6			
FH	(60°-80°)	3438.7	35.9			G2/5000
FVH	(80°-90°)	109.1	1.1			G2/225
BL	(0°-30°)	297.2	3.1	B1/500		
BM	(30°-60°)	357.9	3.7	B1/1000		
BH	(60°-80°)	335.7	3.5	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4
2.5°	2187.0	2191.4	2190.8	2194.3	2202.1	2202.6	2194.8	2179.7	2176.3	2156.8	2122.7
5°	2016.9	2029.7	2037.5	2069.5	2105.3	2148.4	2180.9	2192.7	2190.8	2176.9	2125.4
7.5°	1822.8	1835.7	1844.7	1882.1	1929.6	2003.5	2088.0	2157.4	2163.5	2178.6	2123.2
10°	1693.5	1695.7	1708.0	1743.9	1793.7	1869.2	1970.0	2091.3	2109.8	2165.2	2117.6
12.5°	1587.2	1588.8	1605.1	1643.7	1696.9	1773.0	1878.7	2019.1	2047.6	2148.4	2116.5
15°	1511.7	1517.8	1532.4	1572.7	1629.2	1704.7	1813.2	1966.0	2000.1	2142.2	2126.5
17.5°	1486.5	1493.2	1497.7	1526.8	1578.2	1652.1	1763.5	1931.2	1970.0	2145.6	2146.2
20°	1512.8	1517.8	1507.8	1515.1	1546.9	1613.0	1721.5	1901.6	1947.5	2149.4	2171.3
22.5°	1610.7	1613.0	1585.6	1553.6	1548.1	1584.5	1688.5	1878.1	1927.4	2160.2	2200.9
25°	1778.5	1774.6	1729.9	1661.1	1596.2	1579.4	1668.9	1863.6	1917.3	2171.3	2231.7
27.5°	1981.1	1986.7	1925.1	1824.9	1701.3	1613.0	1666.1	1857.4	1912.8	2179.1	2258.6
30°	2227.2	2235.1	2164.7	2038.7	1861.3	1695.7	1691.9	1856.4	1910.1	2174.2	2260.8
32.5°	2478.4	2488.0	2432.5	2302.7	2075.1	1834.5	1750.0	1868.7	1915.7	2156.8	2248.0
35°	2741.5	2754.9	2718.0	2606.6	2364.9	2034.9	1852.4	1906.1	1942.0	2155.0	2235.1
37.5°	3104.5	3116.8	3047.5	2929.3	2715.6	2303.3	2016.9	1976.6	2004.1	2181.9	2238.4
40°	3646.6	3645.0	3465.9	3285.2	3101.1	2644.6	2248.0	2104.3	2118.2	2263.1	2279.8
42.5°	4237.4	4234.7	3970.1	3695.2	3529.2	3064.8	2551.8	2324.6	2315.1	2412.5	2387.4
45°	4692.8	4692.2	4476.4	4166.9	4044.4	3547.1	2944.5	2631.2	2616.6	2655.2	2585.3
47.5°	4886.9	4890.3	4781.8	4564.2	4615.6	4199.4	3439.6	3075.4	3053.6	3038.0	2931.7
50°	4736.0	4742.6	4751.5	4709.1	5034.6	5076.0	4103.8	3701.4	3690.9	3620.9	3454.8
52.5°	4242.4	4276.6	4381.8	4516.6	5180.2	5917.5	5144.9	4479.1	4422.0	4347.7	4164.8
55°	3411.1	3448.6	3648.2	3975.6	4963.6	6470.4	6603.9	5481.7	5386.6	5164.4	4900.4
57.5°	2257.6	2315.6	2605.5	3021.7	4334.8	6559.3	8059.7	6873.1	6541.9	5933.8	5636.1
60°	1243.7	1299.6	1614.1	1991.1	3130.9	6119.5	9038.8	8684.7	8099.5	6793.6	6529.6
62.5°	765.9	796.2	1028.3	1379.1	1877.6	4830.0	9241.3	10961.2	10283.6	7900.9	7608.9
65°	609.7	622.7	736.3	1127.3	1346.1	2872.9	8587.3	12696.7	12470.7	9241.3	8575.0
67°	591.9	597.0	650.6	967.9	1268.8	1761.3	7194.2	12979.1	13208.6	10052.6	8605.3
67.5°	595.8	601.5	652.4	923.7	1266.7	1618.5	6714.2	12867.8	13157.6	10117.0	8471.5
70°	574.6	591.9	746.9	923.1	1204.6	1345.0	4021.0	11149.2	11450.7	9400.2	7188.0
72.5°	203.7	204.8	322.9	746.9	1309.7	1359.5	2019.1	8173.3	8396.6	7190.9	5182.3
75°	120.8	102.9	107.4	212.6	1251.6	1320.4	1164.8	5222.7	5306.0	4120.5	2624.5
77.5°	83.4	72.7	75.0	94.0	476.7	1302.0	925.3	2723.5	2634.6	1445.1	558.9
80°	47.5	41.9	44.8	82.3	173.4	1214.6	872.8	1104.4	941.6	245.1	154.4
82.5°	25.1	21.3	25.7	67.7	120.8	756.9	874.4	533.7	423.0	82.8	105.2
85°	9.0	7.3	12.3	46.4	80.6	232.1	810.7	448.7	352.5	40.3	80.0
87.5°	1.6	1.6	5.0	19.0	32.4	71.0	479.4	266.3	178.4	24.0	54.8
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°	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4	2115.4
2.5°	2108.6	2084.5	2052.1	2012.4	1965.5	1924.0	1893.3	1861.3	1854.6	1843.4	1841.8
5°	2094.6	2053.3	1972.6	1880.4	1781.9	1693.0	1620.8	1556.4	1527.9	1503.3	1500.4
7.5°	2074.0	2011.9	1874.8	1726.0	1572.1	1432.3	1313.7	1229.7	1152.4	1115.5	1110.0
10°	2049.9	1960.9	1764.5	1558.1	1345.5	1148.0	971.8	824.2	734.6	681.4	674.6
12.5°	2027.6	1911.2	1652.1	1384.1	1101.6	837.6	611.0	470.0	376.0	337.9	333.5
15°	2016.9	1870.8	1546.9	1206.2	846.4	533.1	334.0	258.5	227.7	218.7	218.2
17.5°	2015.8	1836.7	1444.0	1022.1	593.1	310.0	217.7	198.7	192.4	190.2	190.2
20°	2015.2	1804.3	1341.0	831.4	376.5	206.4	181.3	176.8	172.3	169.6	169.6
22.5°	2021.4	1775.3	1233.6	636.7	237.2	167.2	159.4	154.9	149.3	145.5	144.9
25°	2027.6	1752.8	1124.0	453.2	171.7	145.5	137.6	131.4	123.7	118.6	118.0
27.5°	2028.6	1724.8	1006.5	303.2	143.7	127.0	116.9	107.4	98.5	93.4	92.9
30°	2011.9	1677.9	876.1	204.8	127.0	110.3	96.8	86.8	78.3	74.4	74.4
32.5°	1978.9	1619.7	732.9	154.4	113.0	94.5	80.0	70.5	64.9	63.3	62.8
35°	1949.1	1557.1	585.7	130.9	101.3	80.0	65.4	59.3	55.9	55.4	54.8
37.5°	1931.8	1506.6	447.5	118.6	90.0	67.0	55.4	51.0	49.2	48.1	48.6
40°	1945.3	1464.7	330.6	108.5	78.8	55.9	47.0	44.8	43.0	42.5	42.5
42.5°	2004.1	1457.4	245.7	99.5	68.3	46.4	40.9	39.2	38.0	37.4	38.0
45°	2158.4	1502.2	190.7	91.2	57.6	39.2	34.6	34.1	33.6	33.6	33.6
47.5°	2390.6	1594.5	158.9	81.7	48.1	33.6	30.3	29.6	29.1	29.6	29.6
50°	2783.9	1763.5	142.1	72.2	39.8	28.5	25.7	25.7	25.7	25.7	26.3
52.5°	3382.0	2095.8	130.9	62.8	32.4	24.0	21.9	21.9	22.4	22.4	23.0
55°	4048.4	2536.7	120.8	53.1	27.5	20.1	17.9	18.5	19.0	19.5	19.5
57.5°	4771.2	3025.1	112.4	43.6	23.5	16.2	15.1	15.7	16.2	17.4	17.4
60°	5643.3	3553.7	100.2	34.1	19.5	12.9	11.8	12.9	14.5	15.7	16.2
62.5°	6601.2	4065.1	84.4	26.9	16.2	10.1	9.5	11.8	13.9	15.1	15.7
65°	7255.8	4225.7	64.9	21.9	12.3	7.3	7.8	10.6	13.4	15.1	15.1
67°	6990.6	3831.2	53.1	18.5	10.1	5.6	7.3	10.6	13.4	14.5	15.1
67.5°	6806.6	3676.8	51.0	17.9	9.5	5.6	7.3	10.6	13.4	15.1	15.1
70°	5538.3	2762.1	42.5	13.4	7.8	5.0	6.1	10.1	12.9	14.5	14.5
72.5°	3848.0	1703.1	38.0	9.5	6.7	4.5	5.6	9.5	12.3	13.9	14.5
75°	1829.4	616.6	32.4	7.3	6.1	4.0	5.0	9.5	12.3	13.9	13.9
77.5°	373.1	143.2	26.3	6.1	5.0	4.0	4.5	9.0	11.8	13.4	13.4
80°	122.5	55.4	19.5	5.6	5.0	4.0	4.5	8.4	11.8	12.9	13.4
82.5°	88.4	28.0	12.9	5.6	5.0	4.0	4.0	8.4	11.2	12.9	12.9
85°	67.7	19.5	8.4	5.6	5.0	4.0	4.0	7.8	10.6	12.3	12.3
87.5°	44.8	7.8	6.7	5.6	5.0	4.0	4.0	7.8	10.1	11.8	12.3
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)