

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: P299882

Luminaire Tested: **GLNA-AF-02-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9484.6 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

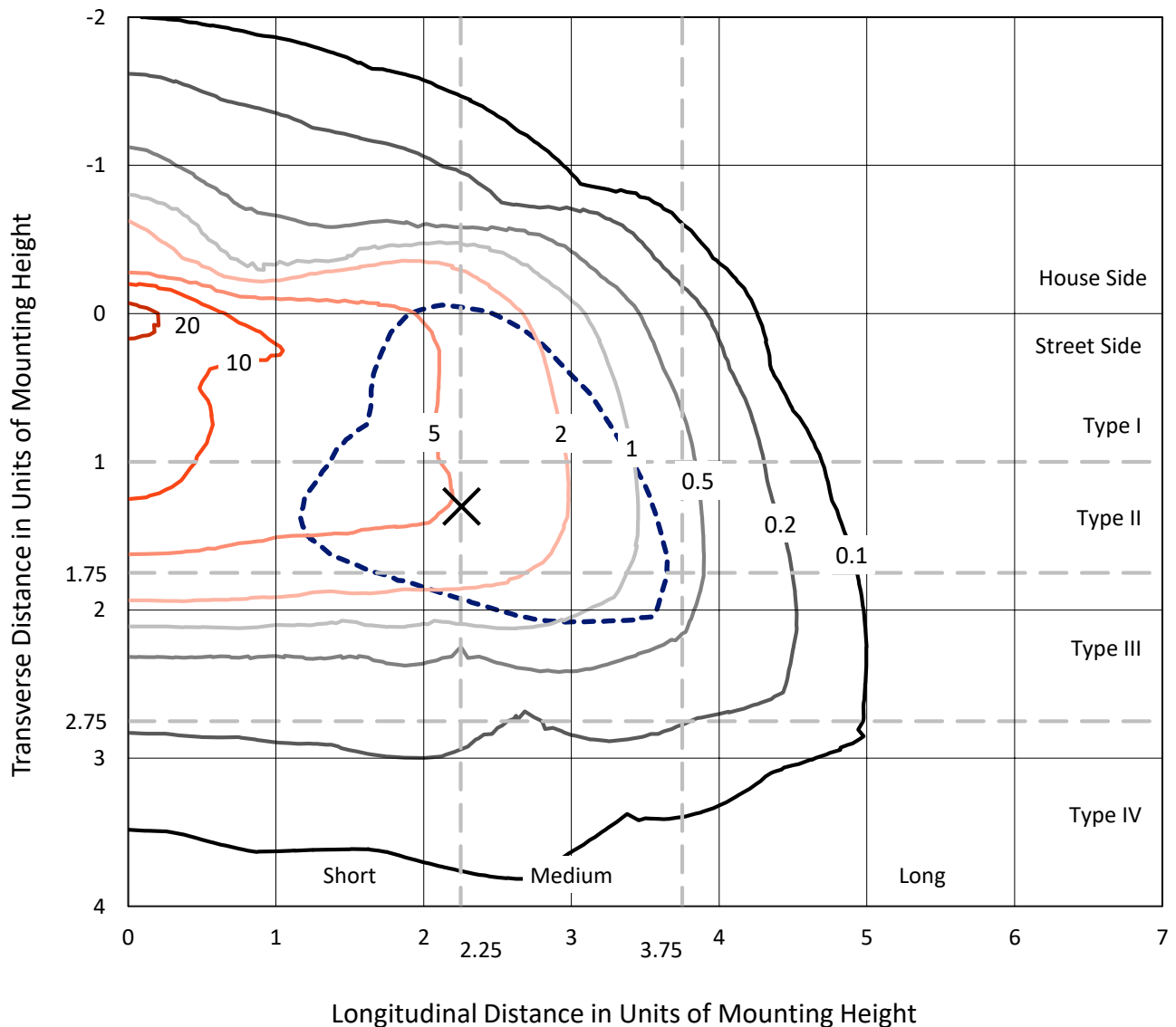
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

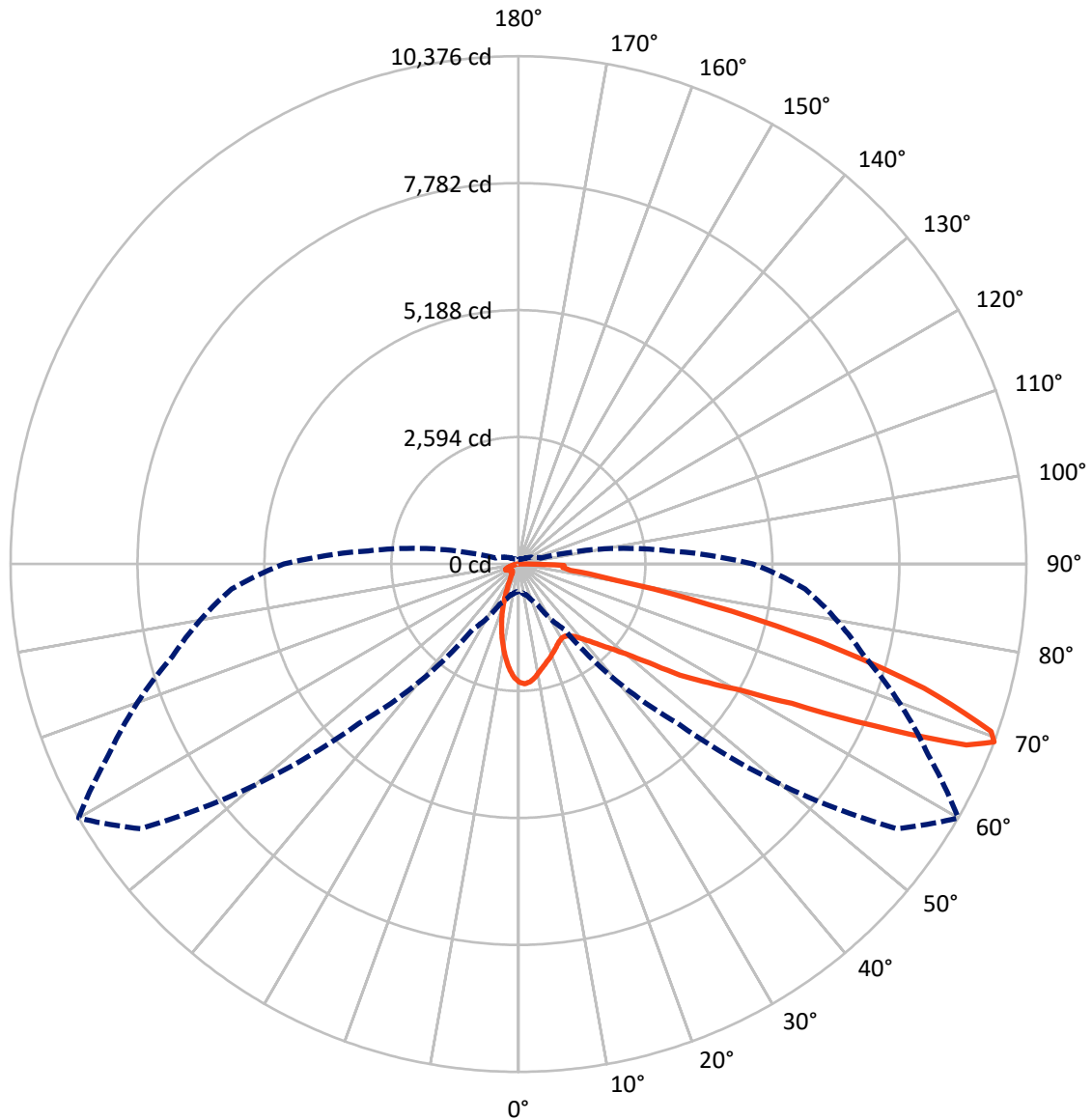
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1349.4	0.0	1349.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8135.2	0.0	8135.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	9484.6	0.0	9484.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	2.2
10°-20°	435.4	4.6
20°-30°	554.8	5.8
30°-40°	762.6	8.0
40°-50°	1237.5	13.0
50°-60°	1984.6	20.9
60°-70°	2641.3	27.8
70°-80°	1426.1	15.0
80°-90°	238.0	2.5
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°	9484.6	100.0
0°-180°	9484.6	100.0

Coefficient of Utilization



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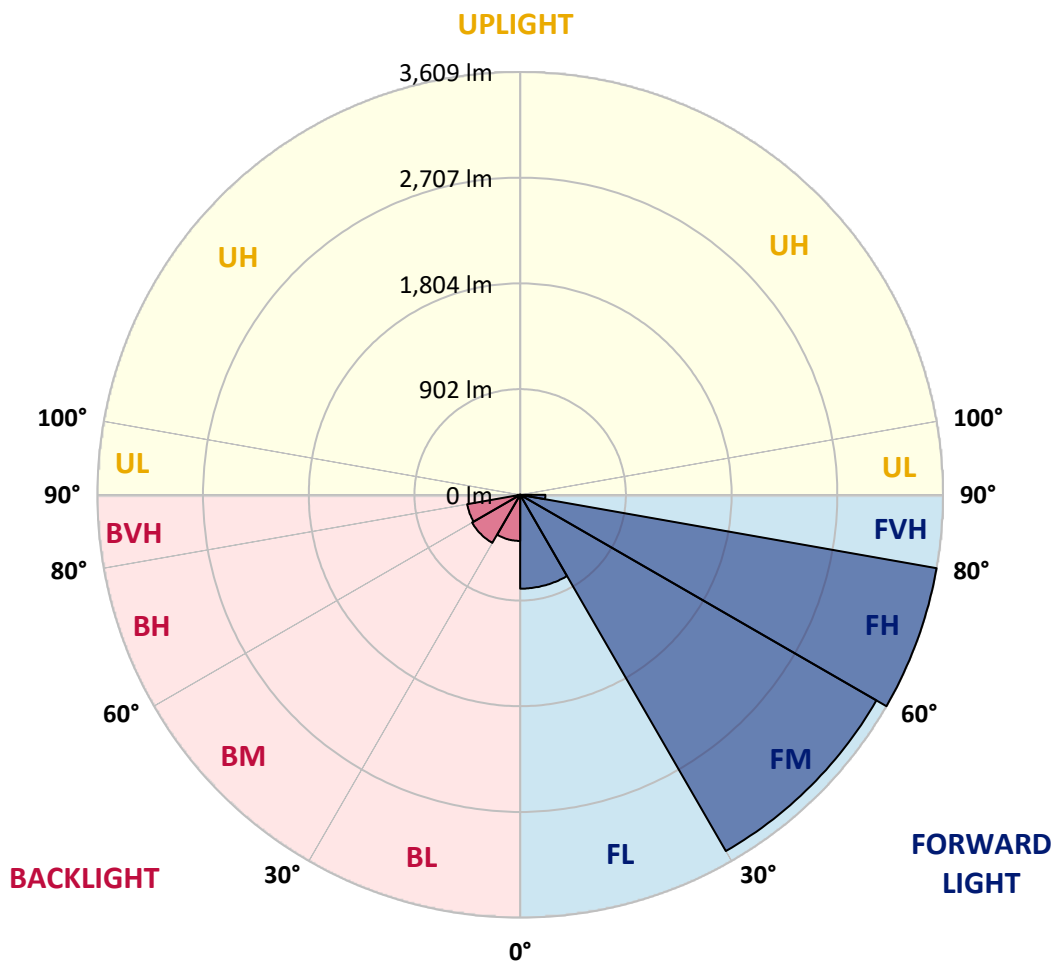
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.8	8.4			
FM (30°-60°)	3510.6	37.0			
FH (60°-80°)	3608.7	38.0			G2/5000
FVH (80°-90°)	215.0	2.3			G2/225
BL (0°-30°)	393.7	4.2	B1/500		
BM (30°-60°)	474.1	5.0	B1/1000		
BH (60°-80°)	458.7	4.8	B1/500		G1/500
BVH (80°-90°)	22.9	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8
2.5°	2466.3	2471.8	2469.5	2468.1	2472.3	2465.8	2452.6	2448.4	2442.0	2426.9	2401.2
5°	2373.8	2390.2	2389.3	2401.7	2422.3	2427.8	2421.9	2422.8	2410.9	2392.1	2349.5
7.5°	2213.9	2220.7	2224.4	2251.4	2289.0	2319.2	2344.9	2353.1	2347.6	2331.6	2276.6
10°	2048.9	2054.4	2063.1	2094.7	2142.4	2184.1	2232.6	2260.6	2272.5	2269.8	2208.4
12.5°	1907.3	1912.8	1924.3	1960.0	2016.8	2068.2	2138.7	2173.5	2201.9	2218.9	2152.9
15°	1780.4	1792.3	1803.3	1844.6	1908.3	1975.6	2055.3	2099.3	2143.3	2181.3	2103.9
17.5°	1681.5	1693.4	1699.8	1737.4	1805.2	1887.6	1981.1	2032.9	2087.9	2150.2	2055.3
20°	1624.2	1629.7	1626.9	1648.0	1709.0	1796.5	1907.3	1967.4	2033.8	2120.8	2006.8
22.5°	1608.2	1608.6	1598.5	1596.2	1635.7	1709.4	1828.5	1901.4	1982.9	2101.6	1965.1
25°	1647.1	1645.7	1618.2	1595.8	1599.9	1643.0	1752.5	1837.2	1940.3	2097.5	1933.0
27.5°	1733.7	1737.8	1697.0	1654.9	1613.2	1611.8	1694.8	1784.1	1905.5	2116.3	1919.3
30°	1855.1	1862.0	1818.5	1764.9	1686.5	1621.9	1672.3	1752.5	1884.0	2155.2	1917.0
32.5°	1988.0	1995.3	1962.3	1906.0	1803.3	1684.2	1687.9	1755.2	1883.1	2209.7	1932.5
35°	2129.6	2137.8	2120.8	2073.2	1959.1	1799.2	1747.4	1799.7	1912.8	2293.1	1974.2
37.5°	2287.6	2300.4	2305.0	2259.7	2137.8	1950.9	1845.0	1884.0	1980.2	2409.0	2050.7
40°	2515.3	2533.2	2531.8	2466.8	2342.6	2155.7	1995.8	2005.8	2085.1	2563.9	2173.1
42.5°	2951.5	2955.2	2841.1	2699.5	2568.0	2371.0	2173.5	2165.3	2229.9	2760.0	2353.1
45°	3506.3	3491.2	3237.4	2963.9	2803.5	2618.4	2404.9	2364.6	2413.6	2999.2	2578.6
47.5°	3966.8	3932.0	3611.3	3233.7	3052.8	2887.4	2676.6	2606.0	2633.1	3270.4	2869.9
50°	4126.7	4100.6	3834.8	3458.2	3288.7	3215.4	3011.1	2911.2	2918.5	3593.8	3211.3
52.5°	4092.3	4088.7	3911.4	3606.2	3509.5	3559.9	3484.8	3349.6	3278.2	3953.1	3579.6
55°	4011.2	4019.0	3954.9	3778.5	3762.0	3892.6	4103.8	4003.9	3781.7	4315.5	3960.4
57.5°	3729.5	3749.6	3890.7	3995.2	4168.4	4362.7	4602.3	4573.9	4323.7	4707.2	4413.0
60°	3004.6	3051.4	3429.8	3953.1	4586.7	5194.2	5301.4	5235.5	4882.7	5193.3	5011.0
62.5°	2105.3	2153.8	2603.8	3422.5	4518.0	6133.5	6551.3	6266.8	5685.4	5909.4	5784.8
65°	1127.1	1150.5	1494.1	2374.7	3814.2	6327.3	8378.0	7945.0	6956.3	6792.3	6446.8
67.5°	621.7	634.6	766.1	1199.0	2442.9	5571.7	9541.8	9868.9	8544.8	7380.1	6326.3
69°	562.2	574.1	660.2	908.1	1634.7	4606.9	9428.1	10376.1	9241.2	7321.9	5881.0
70°	549.8	560.8	638.2	837.1	1323.2	3797.3	9047.4	10246.4	9407.1	7113.5	5492.5
72.5°	494.8	506.7	581.9	751.8	1130.8	1893.1	7166.6	8663.5	8540.7	6167.8	4166.1
75°	461.4	472.4	599.7	736.3	1082.6	1198.1	4724.6	6385.0	6278.2	4314.5	2246.4
77.5°	197.5	196.6	278.1	623.1	1098.7	1160.1	2538.7	3988.8	3639.2	1844.1	645.1
80°	132.0	129.7	132.0	183.3	1007.5	1166.5	1330.1	2024.6	1529.4	470.1	318.0
82.5°	113.6	111.8	115.9	111.8	354.2	1331.4	1130.8	1076.7	727.1	267.1	157.6
85°	76.5	73.3	99.9	100.3	167.2	1183.0	1273.7	909.5	588.3	158.5	77.9
87.5°	36.7	35.7	58.2	71.0	98.0	480.6	1429.0	931.9	593.3	81.1	37.1
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°	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8
2.5°	2393.5	2374.7	2356.3	2334.4	2311.4	2285.8	2273.0	2260.1	2256.9	2253.3	2240.4
5°	2327.5	2300.9	2255.1	2204.7	2151.5	2099.8	2060.4	2035.6	2016.8	2007.2	1990.3
7.5°	2242.3	2203.3	2123.1	2036.1	1946.7	1865.2	1794.6	1750.2	1708.0	1688.3	1665.9
10°	2161.2	2103.0	1978.4	1850.1	1721.8	1598.5	1482.6	1400.6	1327.8	1287.0	1258.1
12.5°	2091.5	2011.8	1839.1	1665.4	1489.5	1314.0	1140.4	1003.8	889.8	829.7	799.0
15°	2023.7	1927.5	1706.7	1486.3	1260.4	1021.7	793.5	638.7	544.3	506.7	493.9
17.5°	1962.3	1839.1	1573.8	1305.8	1024.0	735.4	533.3	448.1	411.9	399.5	395.4
20°	1895.9	1749.7	1435.9	1117.0	777.5	514.1	416.5	378.9	364.2	360.6	358.7
22.5°	1831.7	1661.8	1303.9	915.0	558.5	396.8	357.8	342.2	340.0	343.2	343.2
25°	1777.2	1583.0	1161.4	703.7	410.1	334.0	320.3	316.6	325.3	337.2	339.5
27.5°	1736.4	1518.4	1009.8	519.6	326.7	290.5	290.0	296.0	317.5	340.4	345.0
30°	1708.5	1457.0	847.6	374.8	274.0	255.7	263.0	275.8	307.4	340.0	348.7
32.5°	1694.3	1411.6	678.5	290.0	234.6	224.5	236.9	252.4	283.6	313.8	325.3
35°	1705.3	1378.2	519.1	241.9	207.1	199.3	212.1	227.3	245.6	258.4	267.1
37.5°	1746.5	1364.9	391.7	216.7	188.3	181.0	191.1	199.8	207.1	210.8	214.9
40°	1835.4	1379.1	313.8	203.9	177.8	168.6	172.7	175.9	180.5	184.2	186.0
42.5°	1966.4	1421.7	281.3	198.8	172.3	159.0	158.1	159.4	165.4	172.3	173.6
45°	2149.7	1496.8	279.0	202.1	169.5	151.2	147.1	148.9	158.1	168.6	170.4
47.5°	2383.8	1611.4	297.3	211.7	171.8	147.1	140.2	142.5	153.9	168.1	170.4
50°	2667.4	1771.3	328.0	225.9	181.9	148.0	137.9	139.3	151.2	166.8	169.1
52.5°	3002.4	1998.1	361.5	239.6	192.4	153.9	139.7	136.5	147.5	161.3	164.0
55°	3374.8	2289.0	395.9	252.0	197.9	161.3	143.4	132.9	140.7	152.1	154.4
57.5°	3832.1	2695.8	455.4	263.9	201.6	166.3	147.1	129.2	132.0	140.2	142.0
60°	4451.1	3271.3	560.3	283.6	209.8	168.1	146.6	126.0	123.2	127.8	128.7
62.5°	5192.8	3896.2	647.8	308.3	223.6	169.5	143.9	123.7	115.9	115.9	116.8
65°	5633.1	4063.5	599.3	329.0	235.0	168.1	140.7	121.4	110.4	105.4	105.8
67.5°	5259.7	3573.7	513.6	333.1	234.6	161.7	135.6	117.3	104.9	97.1	96.7
69°	4792.0	3083.5	475.1	322.1	223.6	153.5	129.2	112.7	100.8	92.5	92.1
70°	4414.9	2784.3	449.9	310.2	211.7	147.5	124.2	108.6	97.6	89.8	88.9
72.5°	3209.9	1824.4	384.4	266.7	174.6	123.7	107.2	95.3	87.1	82.5	81.6
75°	1604.0	870.1	312.0	216.3	133.8	99.0	88.0	79.7	75.6	74.7	74.2
77.5°	526.9	398.6	223.1	161.3	99.4	77.4	71.0	65.1	64.1	66.9	66.0
80°	289.6	231.8	141.6	106.8	67.8	56.8	55.9	52.7	54.1	58.6	57.7
82.5°	147.5	120.5	87.5	64.1	45.8	40.8	44.4	42.6	44.4	48.6	48.1
85°	72.8	66.0	55.4	38.9	30.2	26.1	31.6	33.0	33.9	37.1	37.1
87.5°	42.2	38.9	29.3	18.3	15.1	13.7	18.3	17.9	21.1	22.9	22.5
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)