

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: P299102

Luminaire Tested: **GLNA-AF-02-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11500.1 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

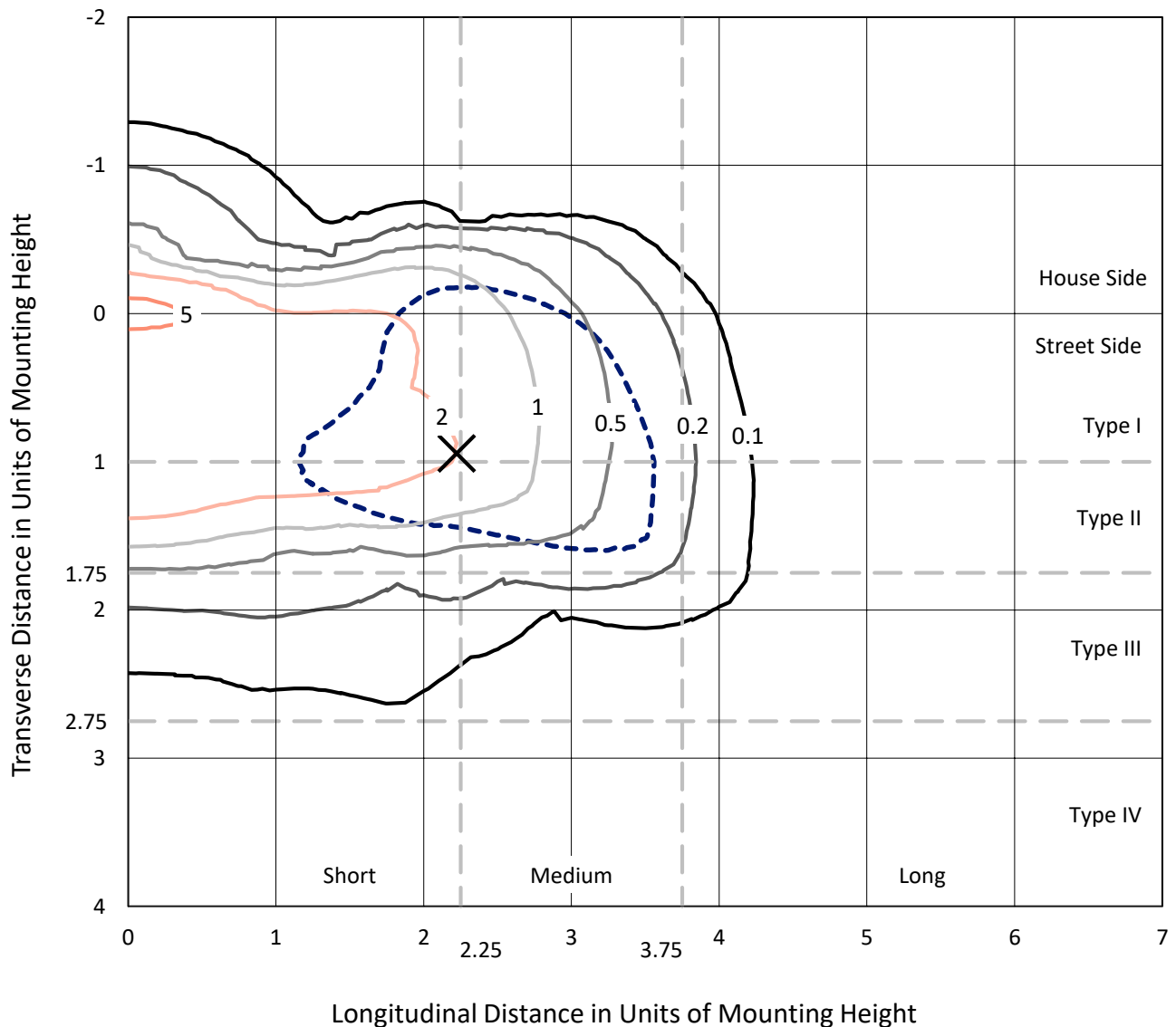
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

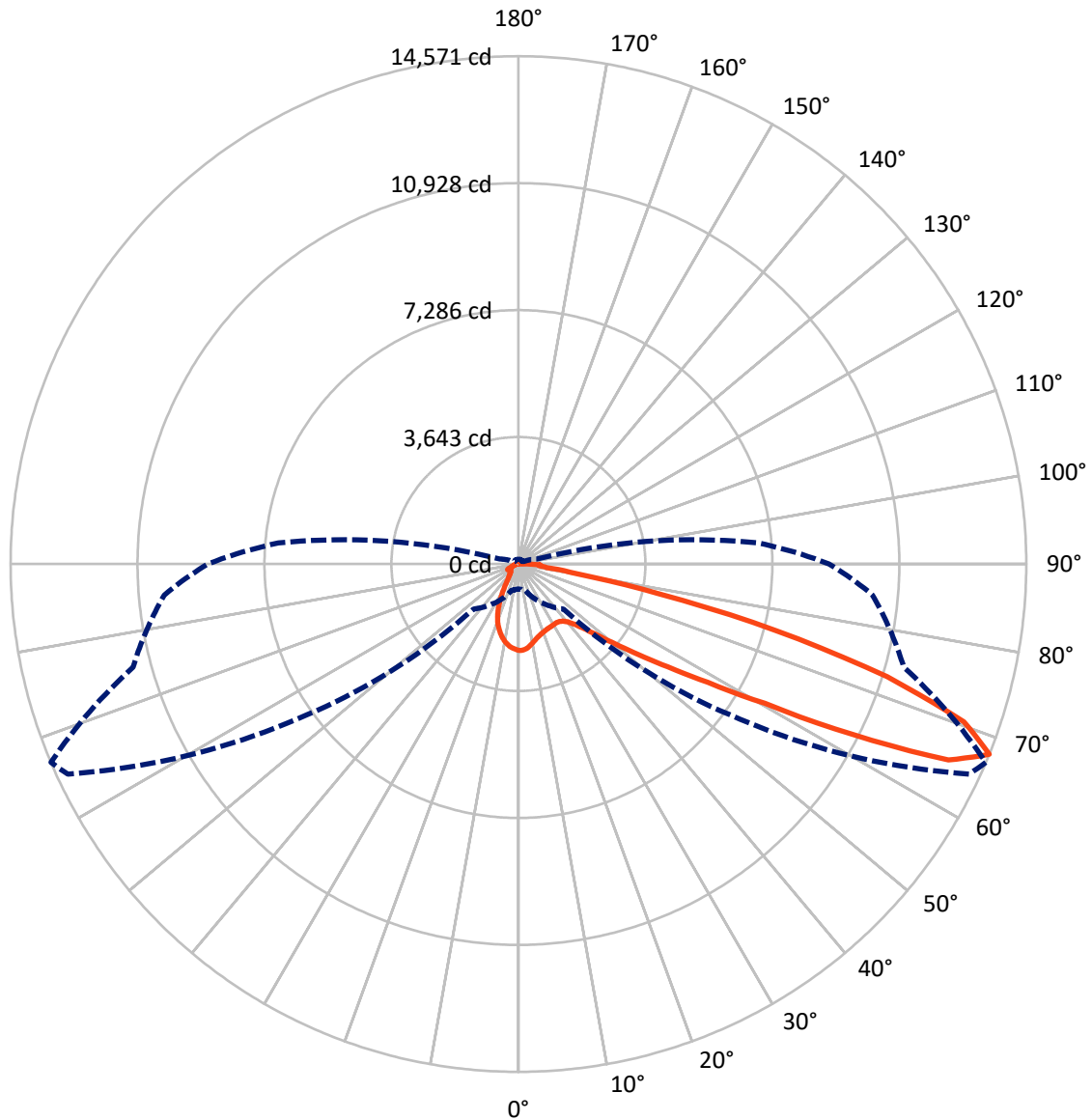
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1905.4	0.0	1905.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9594.6	0.0	9594.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	11500.1	0.0	11500.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.8
10°-20°	489.7	4.3
20°-30°	663.8	5.8
30°-40°	943.6	8.2
40°-50°	1578.7	13.7
50°-60°	2497.5	21.7
60°-70°	3181.5	27.7
70°-80°	1666.5	14.5
80°-90°	267.3	2.3
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°	11500.1	100.0
0°-180°	11500.1	100.0



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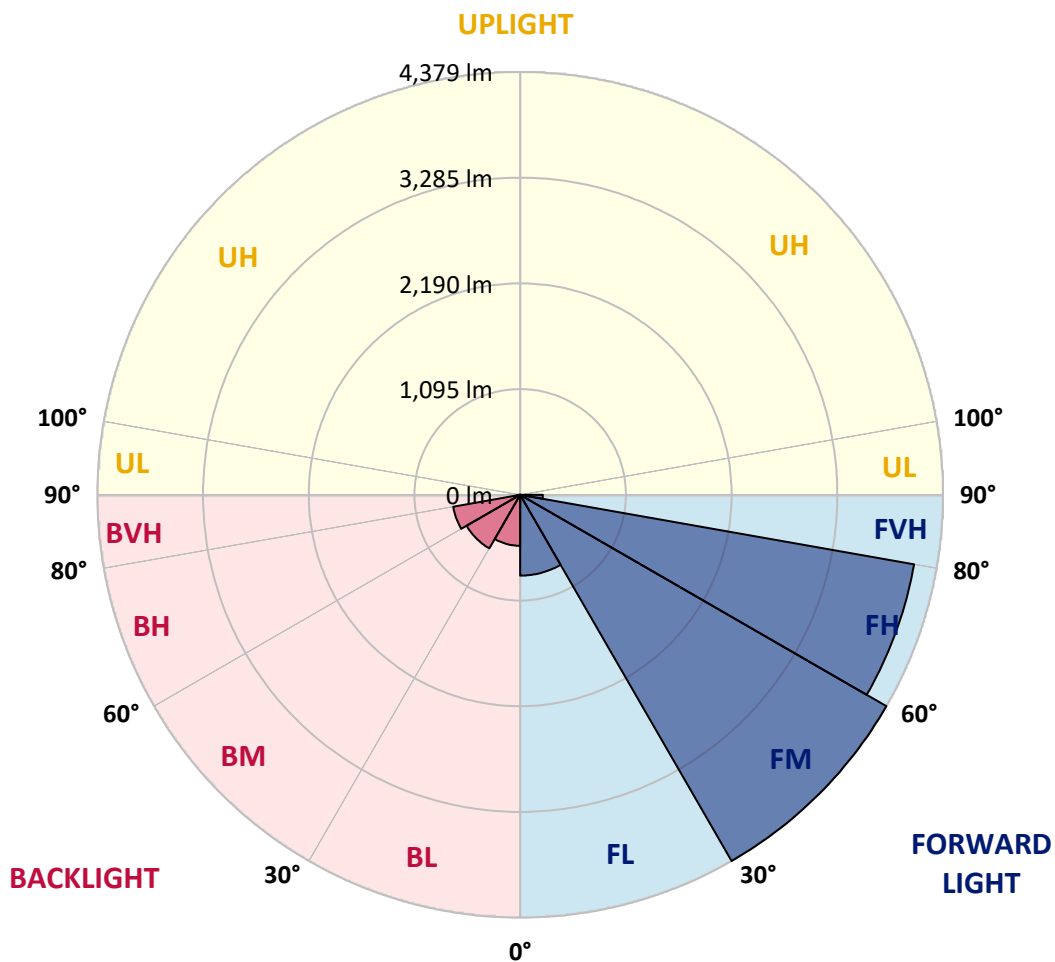
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.9	7.3			
FM	(30°-60°)	4379.5	38.1			
FH	(60°-80°)	4143.2	36.0			G2/5000
FVH	(80°-90°)	235.0	2.0			G3/500
BL	(0°-30°)	528.1	4.6	B2/1000		
BM	(30°-60°)	640.3	5.6	B1/1000		
BH	(60°-80°)	704.8	6.1	B2/1000		G2/1000
BVH	(80°-90°)	32.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5
2.5°	2378.5	2382.4	2394.9	2402.8	2438.6	2453.9	2464.7	2475.4	2477.1	2482.2	2477.1
5°	2128.9	2137.4	2160.7	2186.8	2256.0	2310.4	2367.7	2427.2	2438.0	2476.6	2487.3
7.5°	1935.5	1933.3	1952.6	1983.7	2054.6	2130.1	2230.4	2349.0	2372.2	2459.0	2501.0
10°	1794.3	1792.6	1813.0	1845.4	1912.9	1984.3	2097.7	2259.9	2292.8	2431.2	2514.0
12.5°	1690.0	1690.6	1711.0	1746.7	1815.3	1887.3	2002.5	2173.7	2215.7	2398.9	2527.6
15°	1620.8	1625.3	1641.8	1679.8	1746.7	1818.7	1931.6	2109.1	2156.2	2373.4	2542.9
17.5°	1597.5	1604.9	1610.6	1638.4	1695.7	1767.7	1878.3	2061.4	2111.3	2355.8	2556.5
20°	1619.1	1627.6	1616.8	1626.5	1662.8	1726.3	1836.3	2024.0	2075.1	2335.9	2558.2
22.5°	1711.5	1719.5	1687.7	1659.9	1657.7	1696.2	1801.7	1994.5	2047.3	2321.2	2558.8
25°	1874.3	1879.4	1826.1	1761.4	1698.5	1685.4	1777.3	1974.1	2030.3	2308.1	2548.0
27.5°	2073.9	2077.9	2016.6	1921.4	1794.9	1711.0	1768.8	1962.2	2020.6	2296.8	2529.9
30°	2316.6	2335.4	2253.1	2132.9	1948.6	1786.4	1785.8	1956.0	2009.8	2277.5	2494.1
32.5°	2565.0	2573.0	2516.3	2394.3	2155.6	1919.1	1833.5	1960.5	2007.0	2254.3	2448.8
35°	2816.8	2827.0	2790.2	2692.1	2438.6	2113.6	1926.5	1987.2	2024.6	2246.3	2417.0
37.5°	3142.9	3156.5	3105.5	2992.1	2782.8	2377.3	2081.3	2054.1	2078.5	2269.0	2407.4
40°	3658.4	3652.2	3503.0	3334.0	3159.4	2714.8	2302.5	2167.5	2181.7	2342.2	2436.9
42.5°	4258.4	4243.1	3986.2	3720.8	3573.4	3123.1	2595.1	2364.3	2361.4	2486.2	2540.7
45°	4737.1	4724.6	4493.2	4166.0	4048.0	3588.1	2973.4	2657.5	2636.5	2714.8	2732.3
47.5°	4996.2	4996.8	4863.5	4596.4	4593.6	4179.0	3459.4	3081.7	3045.4	3082.2	3063.5
50°	4905.5	4917.4	4903.2	4818.2	5091.5	4953.7	4094.0	3673.2	3600.0	3636.3	3564.3
52.5°	4466.6	4481.9	4565.8	4696.2	5300.8	5890.0	5026.3	4408.1	4323.1	4310.0	4230.1
55°	3688.5	3707.2	3878.5	4232.9	5126.7	6518.9	6497.4	5345.0	5209.5	5086.4	5052.4
57.5°	2542.4	2573.5	2849.2	3375.4	4563.5	6708.9	8249.2	6680.5	6404.9	5975.1	5983.0
60°	1433.1	1469.4	1794.3	2272.4	3427.0	6502.5	9581.9	8703.4	8121.6	7015.7	7074.7
62.5°	911.3	950.5	1197.2	1578.8	2056.3	5390.9	10128.0	11515.7	10776.8	8298.5	8356.4
65°	737.8	754.8	871.1	1303.2	1493.2	3247.8	9713.5	13832.4	13556.8	9926.7	9656.7
67.5°	720.2	725.9	786.0	1094.0	1432.0	1825.5	7747.8	14265.6	14571.3	11447.1	10198.3
70°	711.7	731.6	885.8	1044.0	1371.3	1539.7	4656.0	13078.1	13560.7	11844.6	9477.5
72.5°	345.4	344.2	445.7	944.2	1544.8	1597.0	2392.1	10581.7	11066.0	10261.8	7788.1
75°	278.5	254.6	243.3	345.9	1485.3	1649.2	1524.4	7281.1	7631.6	6880.2	4787.5
77.5°	264.3	235.9	216.1	216.6	627.8	1749.0	1291.3	4029.9	4132.0	3107.8	1311.7
80°	218.9	192.8	178.6	201.3	304.0	1665.6	1396.2	1823.8	1673.5	763.3	436.7
82.5°	152.0	138.4	134.4	169.0	243.3	1187.0	1623.6	980.0	821.7	382.2	269.4
85°	97.0	82.8	91.9	123.1	189.4	547.8	1672.4	763.9	607.4	242.7	152.0
87.5°	44.8	36.3	45.4	68.1	123.6	188.8	1591.3	858.0	625.5	128.2	95.8
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°	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5
2.5°	2481.7	2470.9	2462.4	2446.5	2428.9	2411.9	2396.6	2377.3	2371.7	2366.5	2374.5
5°	2489.6	2478.8	2447.6	2398.9	2345.0	2294.5	2244.1	2201.0	2174.3	2159.6	2168.1
7.5°	2501.5	2486.2	2421.6	2332.0	2235.0	2146.5	2055.2	1982.0	1928.2	1902.7	1910.0
10°	2512.3	2482.8	2377.3	2242.9	2101.1	1969.6	1825.5	1706.4	1618.0	1571.5	1582.8
12.5°	2516.8	2469.8	2315.5	2131.8	1937.2	1744.4	1532.3	1354.3	1227.2	1180.7	1171.1
15°	2521.4	2455.0	2247.5	2005.3	1739.3	1466.5	1169.4	956.1	850.7	827.4	822.3
17.5°	2522.5	2429.5	2170.3	1868.1	1507.4	1135.9	799.6	664.1	664.7	702.1	706.6
20°	2510.6	2391.5	2076.8	1697.4	1229.5	785.4	549.0	525.7	611.3	704.9	716.3
22.5°	2483.4	2341.0	1970.7	1498.3	911.3	517.2	424.8	450.3	560.9	675.4	688.5
25°	2448.8	2279.8	1845.4	1267.5	603.4	369.8	356.1	387.3	462.2	538.8	546.1
27.5°	2401.7	2207.2	1704.7	1003.2	391.9	304.5	313.6	334.6	365.2	399.2	402.6
30°	2341.0	2120.4	1554.4	731.6	296.0	273.9	287.0	298.3	311.3	330.6	332.3
32.5°	2271.3	2037.1	1400.2	505.3	262.6	258.0	268.2	273.9	284.1	296.0	297.2
35°	2212.9	1957.7	1240.3	357.3	248.4	246.1	252.9	255.2	264.8	277.9	279.0
37.5°	2179.4	1893.0	1075.2	288.1	238.8	235.4	239.3	239.3	252.9	272.2	275.0
40°	2181.7	1857.3	910.2	260.3	230.8	226.3	226.8	226.8	244.4	265.4	267.1
42.5°	2243.5	1866.4	763.9	249.5	224.6	219.5	216.6	218.3	233.1	246.7	247.8
45°	2388.7	1930.4	626.7	242.7	218.3	216.6	210.4	209.8	215.5	221.7	221.7
47.5°	2626.9	2056.9	533.6	238.2	213.2	212.7	205.3	197.9	197.4	199.6	199.6
50°	3014.2	2274.7	471.3	233.1	209.8	205.3	196.8	185.4	181.5	183.2	183.2
52.5°	3594.9	2663.1	447.4	226.3	202.5	195.1	185.4	174.1	170.7	171.3	171.3
55°	4356.5	3259.7	444.0	218.3	194.5	182.6	174.7	166.2	162.2	163.3	163.3
57.5°	5287.2	4084.9	504.7	205.9	183.7	170.1	165.6	159.9	157.1	158.8	158.2
60°	6418.5	5164.7	748.6	192.8	173.0	158.8	158.8	154.3	152.0	153.7	153.1
62.5°	7721.8	6404.9	1052.6	183.2	161.6	149.7	152.0	149.7	147.4	148.6	148.0
65°	8877.5	7213.1	985.6	175.8	150.3	141.2	145.2	144.0	142.3	143.5	142.9
67.5°	8911.0	6913.6	553.5	167.9	139.5	132.7	138.4	137.8	136.7	137.8	137.2
70°	7952.6	5837.8	311.9	153.1	128.2	122.5	130.4	129.9	128.7	131.0	130.4
72.5°	6371.5	4236.3	228.0	135.0	116.8	111.7	120.8	120.2	120.2	123.6	121.9
75°	3666.4	2180.0	182.0	115.7	104.9	100.9	108.9	109.5	110.6	115.1	111.7
77.5°	1045.2	679.4	148.6	98.1	90.2	88.5	96.4	97.5	98.1	103.2	98.7
80°	388.5	313.0	122.5	82.2	73.7	74.3	81.7	83.4	83.9	89.0	83.4
82.5°	247.8	206.4	99.2	63.5	57.8	57.3	66.4	68.6	68.6	69.2	65.8
85°	144.6	123.6	74.9	45.9	40.8	39.1	49.3	53.3	51.6	50.5	48.2
87.5°	97.0	85.1	45.9	25.5	22.1	21.0	28.9	31.8	30.6	28.9	27.2
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)