

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: P191150

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191150
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: GLEON-AF-02-LED-E1-SL3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8209.2 lumens
Efficiency: N/A
Efficacy: 124.4 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

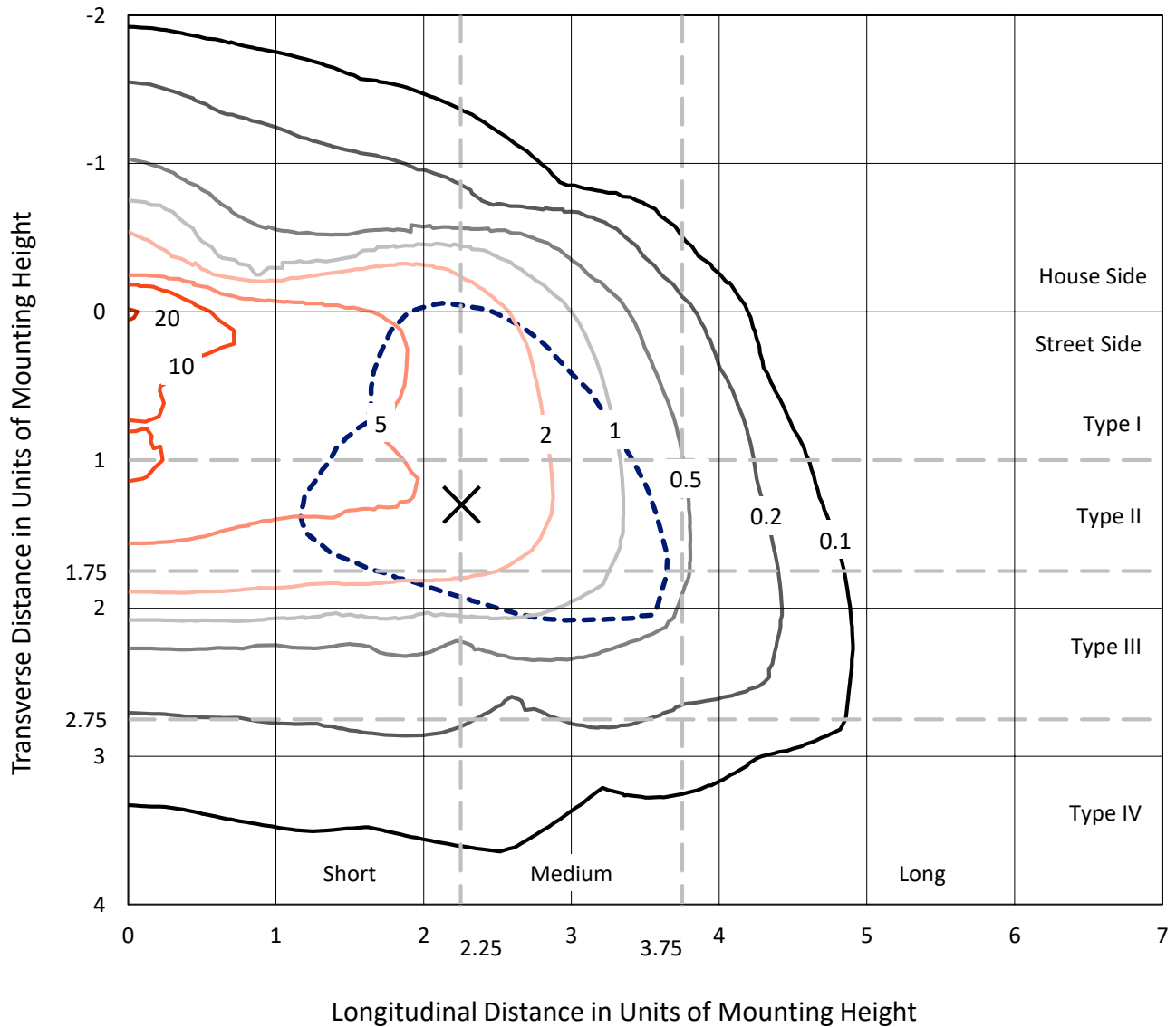
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

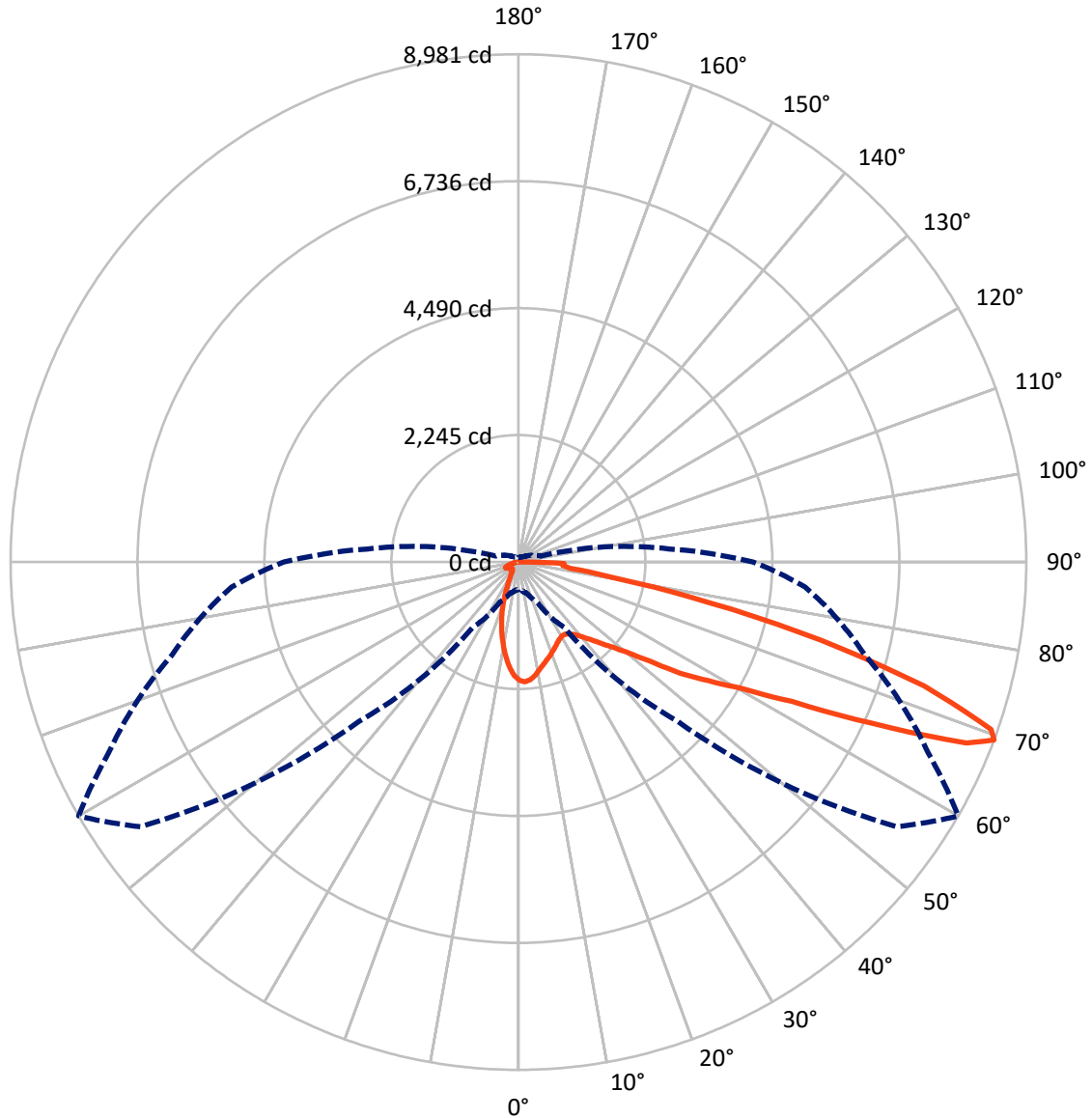
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 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	1167.9	0.0	1167.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7041.3	0.0	7041.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	8209.2	0.0	8209.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	2.2
10°-20°	376.8	4.6
20°-30°	480.2	5.8
30°-40°	660.1	8.0
40°-50°	1071.1	13.0
50°-60°	1717.7	20.9
60°-70°	2286.1	27.8
70°-80°	1234.3	15.0
80°-90°	206.0	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°	8209.2	100.0
0°-180°	8209.2	100.0



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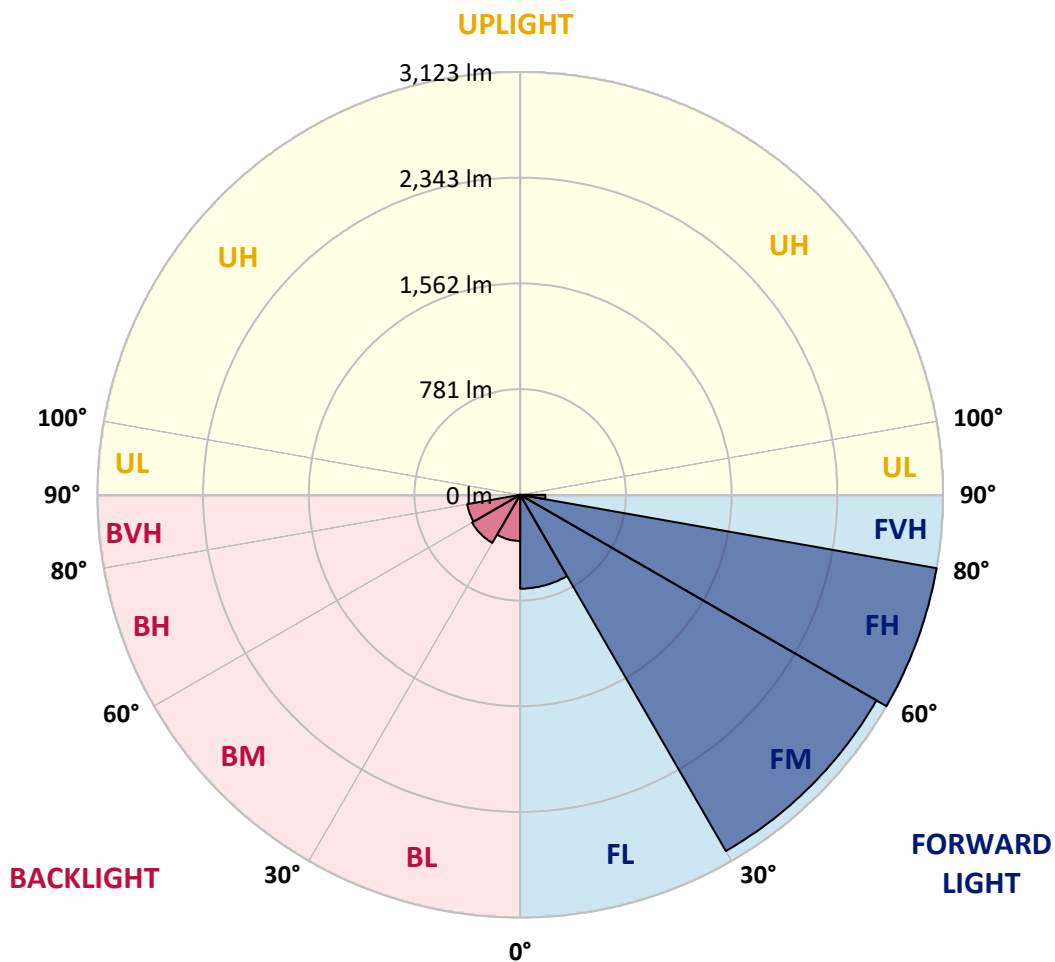
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.2	8.4			
FM	(30°-60°)	3038.6	37.0			
FH	(60°-80°)	3123.4	38.0			G2/5000
FVH	(80°-90°)	186.1	2.3			G2/225
BL	(0°-30°)	340.7	4.2	B1/500		
BM	(30°-60°)	410.3	5.0	B1/1000		
BH	(60°-80°)	397.1	4.8	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8
2.5°	2134.7	2139.4	2137.5	2136.2	2139.8	2134.3	2122.7	2119.1	2113.6	2100.5	2078.3
5°	2054.6	2068.8	2068.0	2078.7	2096.5	2101.3	2096.2	2096.9	2086.7	2070.5	2033.5
7.5°	1916.2	1922.1	1925.3	1948.6	1981.1	2007.3	2029.5	2036.7	2032.0	2018.1	1970.5
10°	1773.4	1778.2	1785.7	1813.1	1854.3	1890.4	1932.5	1956.6	1966.9	1964.6	1911.4
12.5°	1650.8	1655.6	1665.6	1696.5	1745.7	1790.1	1851.1	1881.2	1905.9	1920.5	1863.4
15°	1541.0	1551.3	1560.8	1596.5	1651.7	1710.0	1778.9	1817.0	1855.1	1888.0	1821.0
17.5°	1455.4	1465.7	1471.2	1503.7	1562.5	1633.8	1714.7	1759.5	1807.1	1861.1	1778.9
20°	1405.7	1410.5	1408.2	1426.4	1479.2	1554.9	1650.8	1702.8	1760.3	1835.7	1736.9
22.5°	1391.9	1392.3	1383.5	1381.6	1415.7	1479.5	1582.6	1645.7	1716.3	1819.0	1700.9
25°	1425.6	1424.5	1400.6	1381.2	1384.8	1422.0	1516.8	1590.2	1679.4	1815.4	1673.0
27.5°	1500.6	1504.1	1468.9	1432.3	1396.2	1395.1	1466.8	1544.1	1649.3	1831.7	1661.2
30°	1605.6	1611.6	1573.9	1527.6	1459.8	1403.8	1447.4	1516.8	1630.6	1865.4	1659.2
32.5°	1720.6	1726.9	1698.4	1649.7	1560.8	1457.7	1460.9	1519.2	1629.9	1912.6	1672.6
35°	1843.2	1850.3	1835.7	1794.4	1695.6	1557.2	1512.4	1557.6	1655.6	1984.7	1708.7
37.5°	1980.0	1991.1	1995.1	1955.8	1850.3	1688.5	1596.9	1630.6	1714.0	2085.1	1775.0
40°	2177.0	2192.6	2191.4	2135.0	2027.6	1865.8	1727.4	1736.2	1804.7	2219.1	1880.9
42.5°	2554.6	2557.8	2459.1	2336.5	2222.7	2052.1	1881.2	1874.1	1930.0	2388.8	2036.7
45°	3034.8	3021.7	2802.1	2565.4	2426.5	2266.3	2081.5	2046.6	2089.1	2595.8	2231.8
47.5°	3433.3	3403.3	3125.6	2798.9	2642.3	2499.1	2316.7	2255.6	2279.0	2830.6	2484.0
50°	3571.7	3549.1	3319.2	2993.2	2846.5	2783.0	2606.2	2519.7	2526.1	3110.6	2779.5
52.5°	3542.1	3538.9	3385.4	3121.3	3037.7	3081.2	3016.2	2899.2	2837.4	3421.5	3098.3
55°	3471.8	3478.5	3423.1	3270.4	3256.2	3369.1	3551.9	3465.5	3273.1	3735.1	3427.8
57.5°	3227.9	3245.4	3367.6	3458.0	3607.8	3776.0	3983.4	3958.8	3742.3	4074.2	3819.6
60°	2600.6	2641.1	2968.6	3421.5	3969.9	4495.8	4588.5	4531.5	4226.1	4494.9	4337.1
62.5°	1822.2	1864.2	2253.7	2962.3	3910.4	5308.7	5670.3	5424.1	4920.8	5114.8	5006.9
65°	975.5	995.7	1293.2	2055.3	3301.3	5476.4	7251.4	6876.7	6020.9	5878.9	5579.9
67.5°	538.2	549.2	663.1	1037.8	2114.4	4822.5	8258.6	8541.7	7395.7	6387.7	5475.7
69°	486.6	496.8	571.4	785.9	1414.9	3987.4	8160.3	8980.8	7998.5	6337.4	5090.2
70°	475.9	485.4	552.4	724.5	1145.3	3286.6	7830.8	8868.6	8142.1	6156.9	4753.9
72.5°	428.3	438.5	503.6	650.7	978.7	1638.6	6202.9	7498.4	7392.1	5338.4	3605.9
75°	399.4	408.9	519.0	637.3	937.0	1037.0	4089.2	5526.4	5434.0	3734.4	1944.3
77.5°	170.9	170.1	240.7	539.3	950.9	1004.0	2197.3	3452.4	3149.9	1596.1	558.3
80°	114.2	112.2	114.2	158.7	872.1	1009.7	1151.2	1752.4	1323.7	406.8	275.2
82.5°	98.3	96.8	100.4	96.8	306.6	1152.4	978.7	931.9	629.3	231.2	136.5
85°	66.2	63.4	86.4	86.8	144.7	1023.9	1102.4	787.2	509.2	137.2	67.4
87.5°	31.7	30.9	50.3	61.5	84.9	416.0	1236.8	806.6	513.5	70.2	32.1
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°	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8
2.5°	2071.6	2055.3	2039.5	2020.4	2000.6	1978.4	1967.3	1956.2	1953.4	1950.3	1939.1
5°	2014.5	1991.5	1951.8	1908.2	1862.2	1817.4	1783.3	1761.9	1745.7	1737.3	1722.6
7.5°	1940.7	1907.0	1837.6	1762.2	1685.0	1614.4	1553.4	1514.9	1478.4	1461.3	1441.8
10°	1870.6	1820.1	1712.3	1601.3	1490.2	1383.5	1283.3	1212.3	1149.2	1113.9	1088.9
12.5°	1810.3	1741.3	1591.8	1441.4	1289.2	1137.3	987.0	868.9	770.1	718.1	691.6
15°	1751.6	1668.3	1477.1	1286.5	1090.9	884.3	686.8	552.8	471.1	438.5	427.5
17.5°	1698.4	1591.8	1362.2	1130.2	886.3	636.5	461.6	387.8	356.5	345.8	342.2
20°	1640.9	1514.5	1242.8	966.8	673.0	445.0	360.5	328.0	315.3	312.1	310.5
22.5°	1585.5	1438.3	1128.6	792.0	483.4	343.4	309.7	296.2	294.2	297.1	297.1
25°	1538.2	1370.1	1005.3	609.1	355.0	289.1	277.2	274.0	281.5	291.8	293.9
27.5°	1502.9	1314.2	874.0	449.7	282.7	251.4	251.0	256.1	274.8	294.6	298.6
30°	1478.8	1261.0	733.7	324.4	237.1	221.3	227.6	238.8	266.1	294.2	301.8
32.5°	1466.5	1221.8	587.3	251.0	203.1	194.4	205.0	218.5	245.5	271.6	281.5
35°	1476.0	1192.9	449.3	209.4	179.2	172.5	183.6	196.7	212.6	223.6	231.2
37.5°	1511.6	1181.3	339.0	187.6	163.0	156.6	165.4	172.9	179.2	182.4	186.0
40°	1588.6	1193.6	271.6	176.5	153.9	146.0	149.5	152.3	156.2	159.4	161.0
42.5°	1702.0	1230.5	243.5	172.1	149.1	137.6	136.8	138.0	143.1	149.1	150.3
45°	1860.6	1295.6	241.5	174.9	146.7	130.8	127.3	128.9	136.8	146.0	147.5
47.5°	2063.3	1394.7	257.4	183.2	148.7	127.3	121.3	123.4	133.3	145.6	147.5
50°	2308.7	1533.1	284.0	195.5	157.4	128.1	119.4	120.5	130.8	144.3	146.3
52.5°	2598.6	1729.4	312.9	207.4	166.5	133.3	120.9	118.2	127.7	139.6	142.0
55°	2921.0	1981.1	342.6	218.1	171.3	139.6	124.1	115.0	121.7	131.7	133.6
57.5°	3316.8	2333.4	394.1	228.4	174.5	143.9	127.3	111.8	114.2	121.3	123.0
60°	3852.5	2831.4	485.0	245.5	181.6	145.6	126.9	109.0	106.7	110.7	111.4
62.5°	4494.5	3372.3	560.7	266.9	193.5	146.7	124.5	107.1	100.4	100.4	101.2
65°	4875.6	3517.0	518.7	284.7	203.5	145.6	121.7	105.1	95.5	91.2	91.6
67.5°	4552.4	3093.1	444.6	288.3	203.1	139.9	117.3	101.5	90.8	84.1	83.7
69°	4147.6	2668.8	411.2	278.8	193.5	132.9	111.8	97.6	87.3	80.1	79.7
70°	3821.2	2409.9	389.4	268.4	183.2	127.7	107.5	94.0	84.5	77.7	76.9
72.5°	2778.2	1579.1	332.7	230.8	151.1	107.1	92.8	82.4	75.4	71.4	70.6
75°	1388.3	753.1	270.1	187.2	115.8	85.6	76.1	69.0	65.5	64.7	64.2
77.5°	456.0	345.0	193.1	139.6	86.0	67.0	61.5	56.3	55.5	57.9	57.1
80°	250.6	200.7	122.5	92.4	58.7	49.2	48.4	45.6	46.7	50.7	49.9
82.5°	127.7	104.3	75.7	55.5	39.7	35.3	38.5	36.9	38.5	42.0	41.6
85°	63.0	57.1	48.0	33.8	26.2	22.6	27.3	28.5	29.4	32.1	32.1
87.5°	36.5	33.8	25.4	15.9	13.1	11.9	15.9	15.4	18.2	19.8	19.4
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)