

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: P192010

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9884 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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

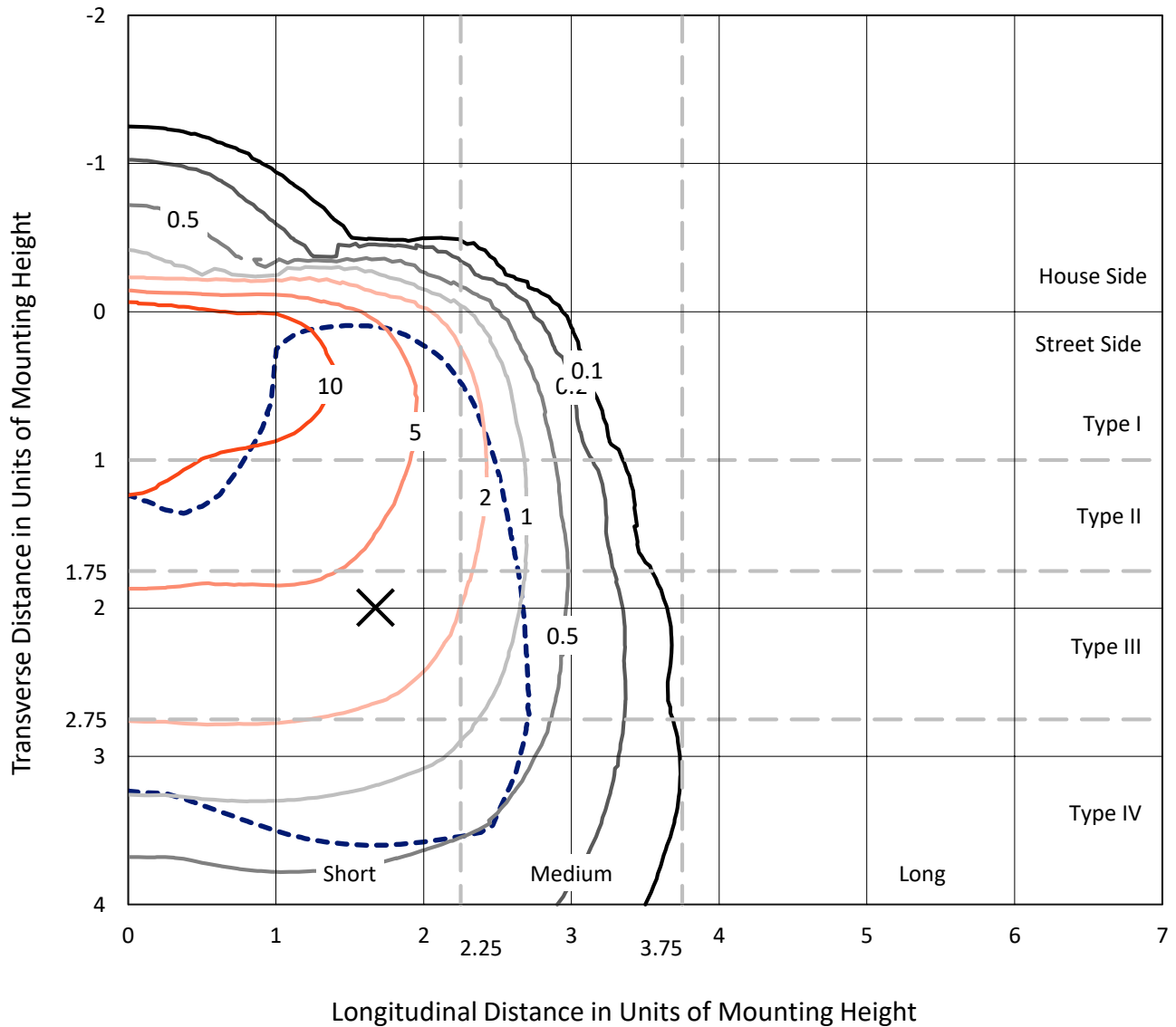


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

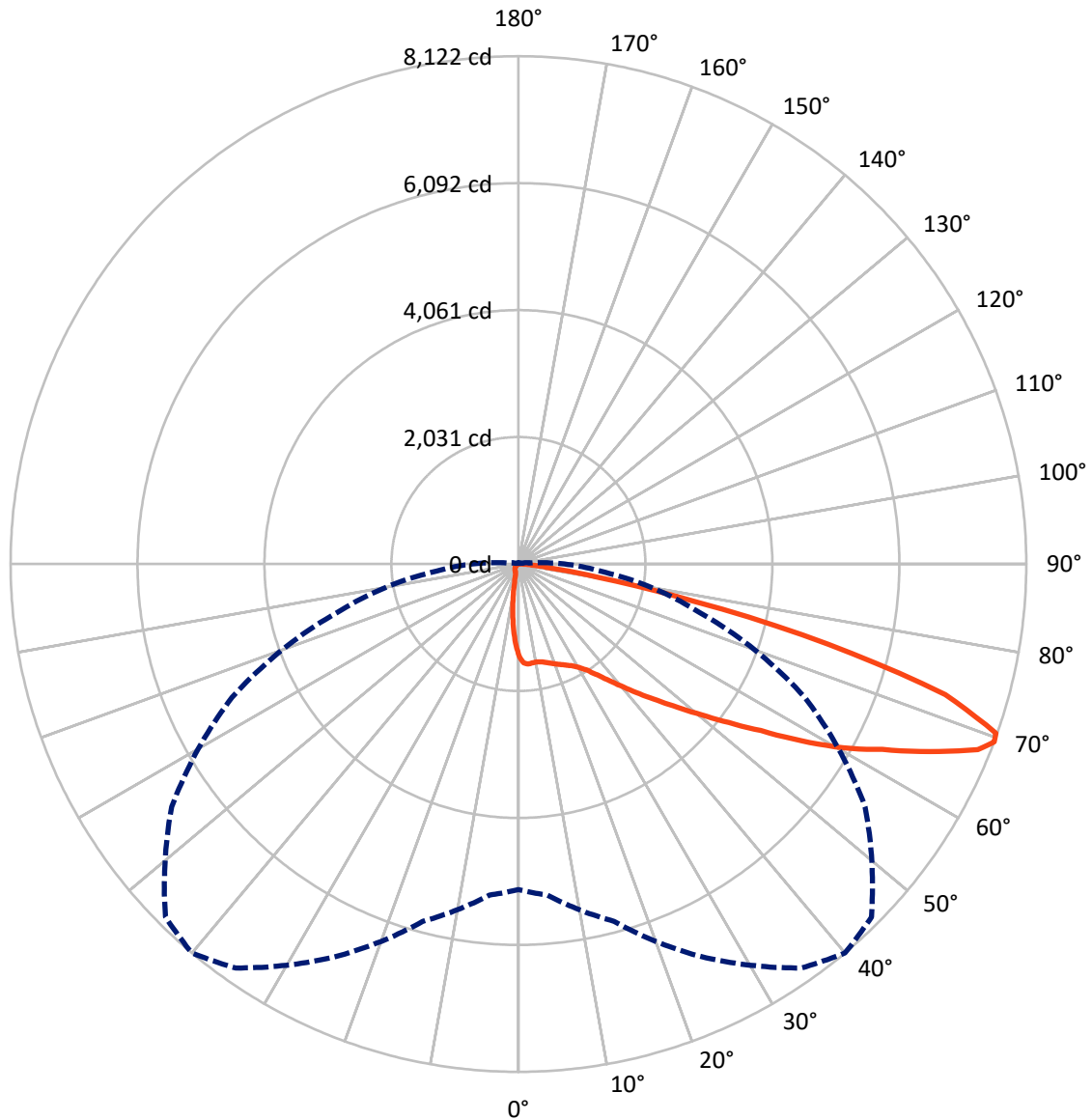


Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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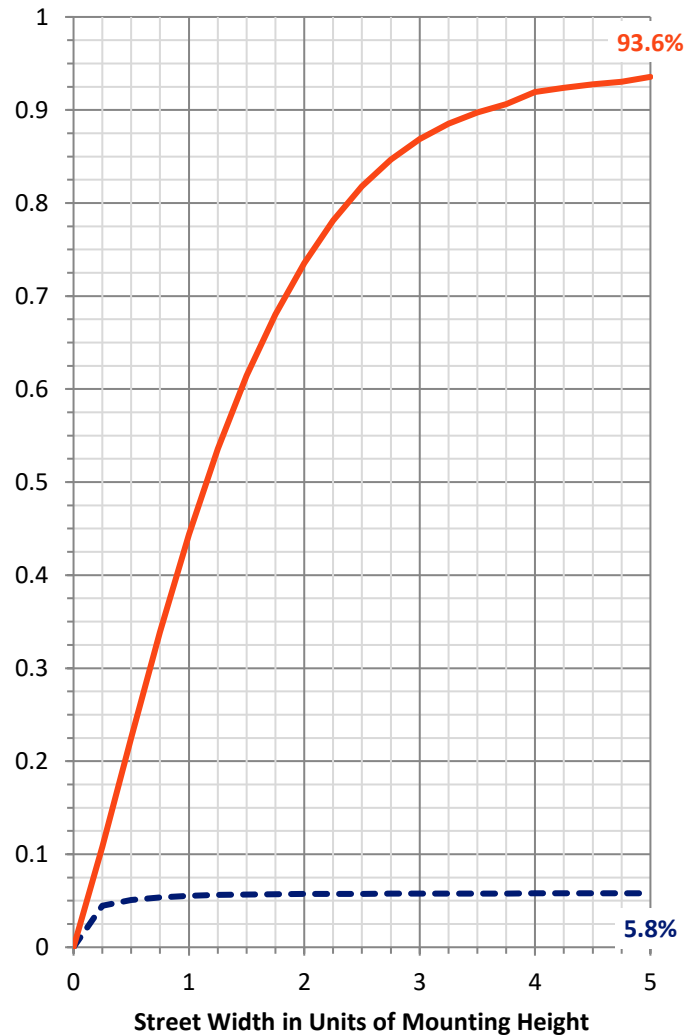
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.3	0.0	578.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9305.7	0.0	9305.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	9884.0	0.0	9884.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.2
10°-20°	294.4	3.0
20°-30°	495.9	5.0
30°-40°	811.9	8.2
40°-50°	1405.7	14.2
50°-60°	2214.2	22.4
60°-70°	2891.6	29.3
70°-80°	1489.3	15.1
80°-90°	161.1	1.6
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°	9884.0	100.0
0°-180°	9884.0	100.0



--- HS — SS

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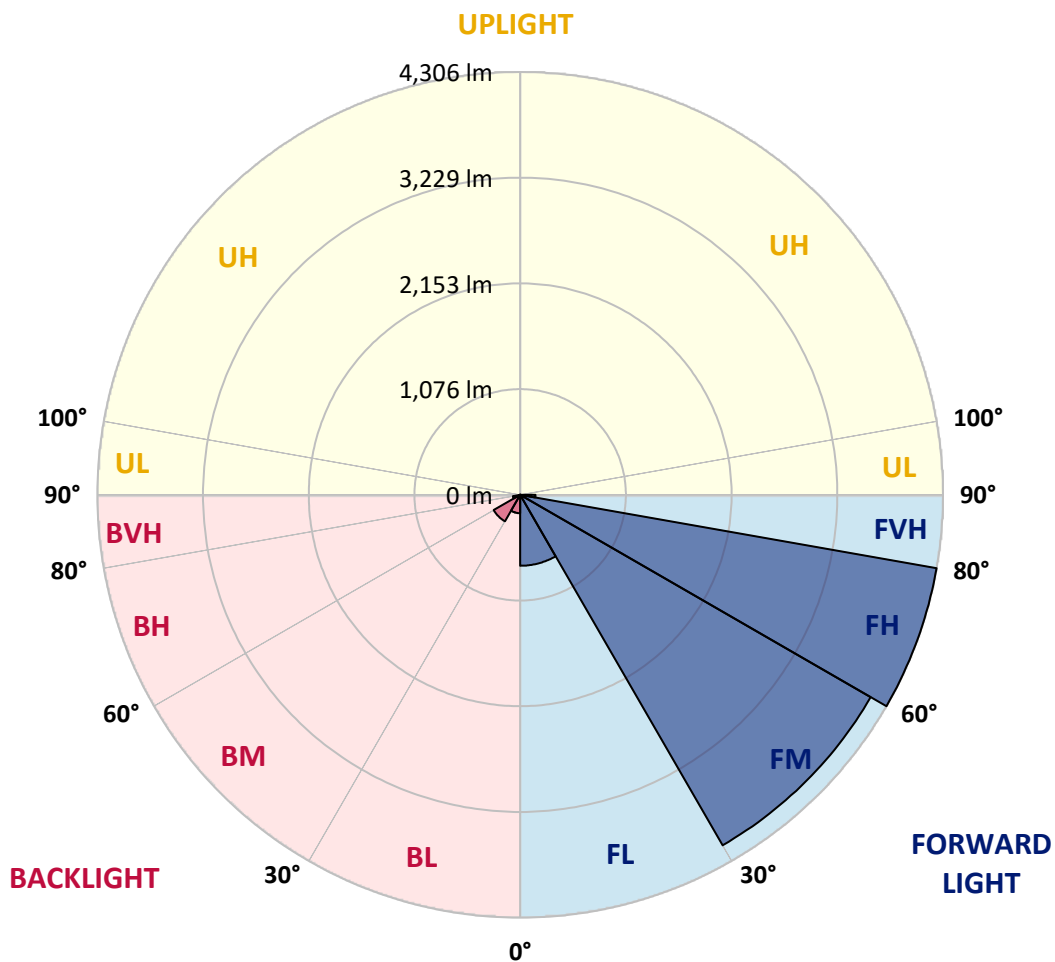
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.8	7.3			
FM	(30°-60°)	4121.0	41.7			
FH	(60°-80°)	4305.9	43.6			G2/5000
FVH	(80°-90°)	156.0	1.6			G2/225
BL	(0°-30°)	187.3	1.9	B1/500		
BM	(30°-60°)	310.8	3.1	B1/1000		
BH	(60°-80°)	75.1	0.8	B0/110		G0/110
BVH	(80°-90°)	5.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7
2.5°	1621.5	1612.6	1607.3	1600.3	1591.4	1583.8	1580.9	1559.1	1538.5	1510.3	1477.9
5°	1651.5	1648.5	1639.1	1629.7	1619.1	1607.3	1600.9	1575.0	1545.6	1504.4	1447.9
7.5°	1654.4	1650.9	1639.1	1626.2	1611.4	1597.3	1586.2	1560.3	1533.2	1491.4	1422.6
10°	1649.7	1645.6	1636.7	1622.6	1604.4	1590.9	1579.7	1555.0	1532.0	1494.4	1417.9
12.5°	1644.4	1640.3	1636.2	1629.1	1613.2	1603.8	1594.4	1570.9	1550.3	1518.5	1434.9
15°	1649.7	1647.3	1652.0	1649.1	1640.3	1632.0	1622.6	1601.4	1582.6	1556.1	1466.1
17.5°	1672.0	1672.0	1686.8	1688.5	1680.3	1668.5	1655.0	1633.8	1617.9	1595.6	1503.2
20°	1724.4	1722.6	1741.5	1745.0	1725.0	1706.8	1686.8	1660.9	1648.5	1634.4	1539.7
22.5°	1814.4	1806.2	1817.4	1813.8	1774.4	1746.2	1721.5	1689.7	1683.2	1676.8	1580.3
25°	1931.5	1926.8	1934.4	1899.7	1830.3	1792.1	1762.7	1726.8	1726.8	1733.2	1626.2
27.5°	2101.5	2083.9	2058.0	1996.8	1892.7	1843.8	1812.1	1773.8	1783.8	1808.0	1686.8
30°	2275.7	2256.3	2196.8	2102.7	1968.6	1917.4	1880.3	1840.3	1863.8	1908.0	1767.9
32.5°	2447.5	2425.7	2341.6	2222.7	2077.4	2026.2	1990.3	1946.2	1985.6	2059.8	1886.8
35°	2614.0	2594.6	2497.5	2357.5	2222.1	2179.8	2146.8	2108.6	2159.2	2262.7	2054.5
37.5°	2801.1	2779.9	2661.6	2509.8	2398.1	2367.5	2343.3	2305.1	2393.3	2545.1	2288.0
40°	3031.1	2995.2	2835.8	2684.6	2601.6	2586.9	2570.4	2565.1	2702.2	2912.3	2599.3
42.5°	3294.7	3235.8	3018.2	2868.7	2825.2	2835.8	2831.7	2855.2	3088.8	3368.8	2978.2
45°	3558.2	3482.4	3221.1	3065.2	3071.1	3108.2	3131.1	3225.3	3573.0	3892.4	3385.9
47.5°	3781.8	3707.1	3415.9	3277.6	3348.2	3421.2	3483.5	3661.8	4070.7	4407.8	3703.0
50°	3973.0	3902.4	3622.4	3511.2	3670.0	3787.7	3888.9	4153.1	4606.1	4800.2	3925.4
52.5°	4129.5	4082.5	3836.5	3778.9	4037.7	4210.1	4358.4	4674.9	5080.3	5119.1	4098.3
55°	4281.9	4248.4	4066.6	4097.2	4469.6	4704.3	4892.0	5228.5	5488.6	5385.0	4264.3
57.5°	4457.2	4426.6	4329.0	4500.8	5037.3	5332.7	5537.4	5719.2	5848.0	5656.8	4420.7
60°	4636.1	4618.4	4620.8	4949.1	5689.2	5972.8	6085.7	6132.8	6201.0	5912.8	4429.6
62.5°	4806.7	4840.2	4954.4	5448.0	6313.4	6531.1	6588.2	6634.7	6554.6	5953.4	4092.5
65°	5095.6	5150.3	5422.7	6115.7	7000.0	7233.0	7291.8	7132.4	6610.5	5428.6	3328.8
67.5°	5236.8	5336.8	5822.7	6738.2	7666.0	7924.9	7903.1	7164.7	5932.2	4139.5	2136.2
69°	5207.4	5313.8	5915.1	6928.8	7887.2	8122.0	7983.7	6768.8	5053.8	2998.7	1311.4
70°	5090.9	5198.5	5867.5	6921.8	7915.5	8101.4	7834.3	6279.9	4273.1	2192.7	820.1
72.5°	4251.3	4344.3	5209.1	6256.4	7291.8	7140.6	6554.0	4350.7	2082.1	597.2	184.7
75°	2616.9	2668.7	3737.7	4713.2	5507.4	5119.1	4366.6	2164.5	620.7	168.9	102.4
77.5°	1382.6	1406.1	2046.2	2778.1	3491.2	2888.7	2238.0	844.3	285.9	105.9	74.1
80°	817.2	834.8	1102.0	1270.2	1510.8	1262.0	894.9	518.3	204.7	66.5	65.9
82.5°	467.7	478.9	799.0	706.0	595.4	508.3	445.4	491.3	123.0	44.7	68.2
85°	171.8	174.1	449.5	537.1	354.2	210.6	221.2	407.1	32.9	28.2	53.5
87.5°	80.0	78.2	231.2	328.9	207.1	133.6	172.4	89.4	12.9	18.2	14.7
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°	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7
2.5°	1459.1	1437.3	1397.9	1357.3	1316.1	1284.3	1253.2	1228.4	1220.2	1204.9	1206.1
5°	1414.4	1374.4	1292.0	1208.4	1121.4	1049.6	981.9	927.2	900.7	873.7	873.7
7.5°	1375.5	1317.3	1188.4	1052.5	911.9	793.7	687.2	607.2	563.0	527.7	527.1
10°	1360.8	1282.0	1102.0	907.2	711.3	550.1	423.6	342.4	300.6	273.6	272.4
12.5°	1367.3	1269.6	1035.5	773.1	527.1	353.6	245.3	193.0	175.3	167.1	167.1
15°	1386.1	1266.1	969.0	641.9	372.4	221.2	163.0	148.8	147.7	147.7	147.7
17.5°	1409.1	1267.3	900.7	514.2	253.6	158.3	140.6	138.8	140.0	140.0	140.0
20°	1432.6	1267.9	827.2	395.9	178.9	137.7	132.4	131.8	133.0	133.0	133.6
22.5°	1461.4	1270.8	753.7	295.9	147.7	130.0	125.9	125.9	126.5	126.5	125.9
25°	1494.4	1276.7	677.2	219.4	134.7	124.7	121.2	120.6	121.2	120.6	120.0
27.5°	1535.6	1284.9	591.9	171.8	128.8	119.4	116.5	116.5	115.9	115.3	114.7
30°	1587.3	1294.3	496.0	145.9	123.0	114.7	111.8	111.2	110.6	109.4	109.4
32.5°	1666.2	1314.9	401.2	132.4	116.5	108.3	105.9	105.9	104.7	103.5	103.0
35°	1787.4	1355.5	316.5	124.1	109.4	101.2	98.3	98.3	97.1	96.5	95.9
37.5°	1955.0	1417.3	245.9	116.5	102.4	93.5	90.6	90.0	88.8	87.7	87.1
40°	2178.0	1493.8	193.6	109.4	95.3	85.9	83.5	82.4	80.0	78.2	78.2
42.5°	2458.1	1580.9	157.1	101.8	87.1	78.8	77.1	75.3	71.2	69.4	68.8
45°	2751.1	1659.1	133.0	93.0	78.8	71.8	70.6	67.7	62.4	60.6	60.6
47.5°	2962.3	1677.3	117.1	84.7	71.2	64.1	63.5	58.2	53.5	52.4	51.8
50°	3094.1	1641.5	104.1	76.5	64.1	57.1	55.3	48.8	45.9	44.7	44.1
52.5°	3182.9	1577.3	93.5	69.4	57.7	50.6	46.5	41.8	39.4	38.2	38.2
55°	3254.1	1486.7	83.0	63.0	52.4	45.3	39.4	35.9	33.5	32.4	32.4
57.5°	3274.1	1363.8	72.4	57.7	47.1	40.0	33.5	31.2	28.2	27.7	27.7
60°	3128.8	1142.0	64.1	51.2	42.4	34.7	29.4	26.5	23.5	22.9	22.4
62.5°	2745.8	883.7	56.5	45.3	37.1	30.0	25.3	21.8	19.4	19.4	19.4
65°	2094.5	592.5	49.4	39.4	32.4	25.3	21.8	17.7	16.5	16.5	17.1
67.5°	1253.7	322.4	42.4	33.5	27.7	21.2	18.2	15.3	14.7	15.3	15.3
69°	734.8	189.4	38.2	30.0	24.1	18.8	15.9	13.5	14.7	15.3	15.3
70°	453.6	127.7	35.3	27.1	21.8	17.1	14.7	12.9	14.1	14.7	14.7
72.5°	126.5	65.9	28.2	21.2	17.7	14.1	11.8	11.8	13.5	14.1	14.1
75°	82.4	48.8	21.8	15.9	13.5	11.2	10.0	11.2	12.9	13.5	13.5
77.5°	68.2	40.0	17.7	12.9	11.2	10.6	9.4	10.0	11.8	12.4	12.4
80°	62.4	28.2	14.1	11.8	10.0	9.4	8.8	8.2	10.6	11.2	11.2
82.5°	59.4	22.4	12.4	10.6	9.4	8.2	7.6	8.2	9.4	10.0	10.6
85°	37.1	14.7	11.2	10.0	8.2	7.6	7.6	7.6	8.8	9.4	9.4
87.5°	13.5	11.8	10.0	8.2	7.1	7.1	7.1	7.1	7.6	8.8	8.8
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)