

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: P193660

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6860 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - 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

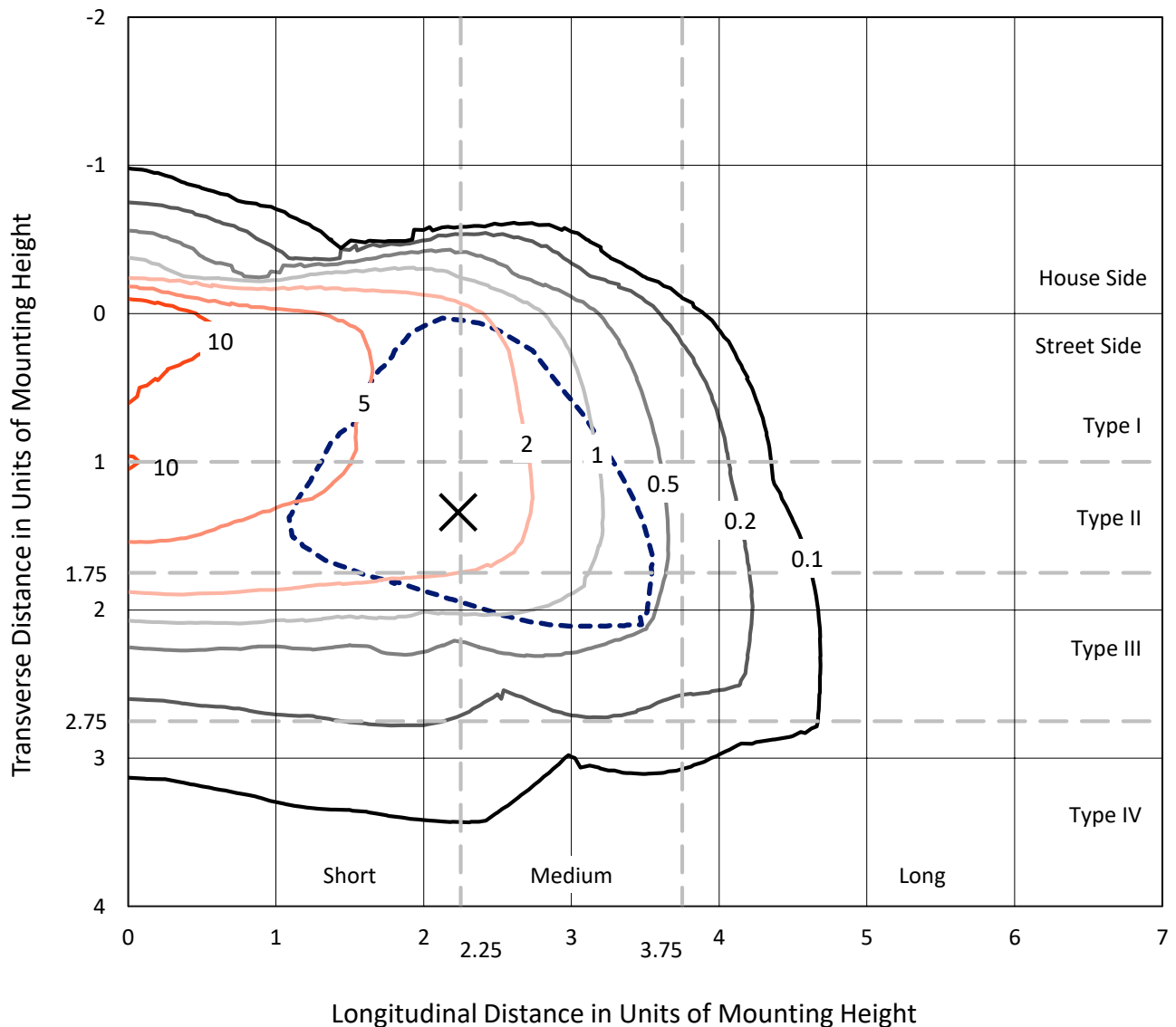


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

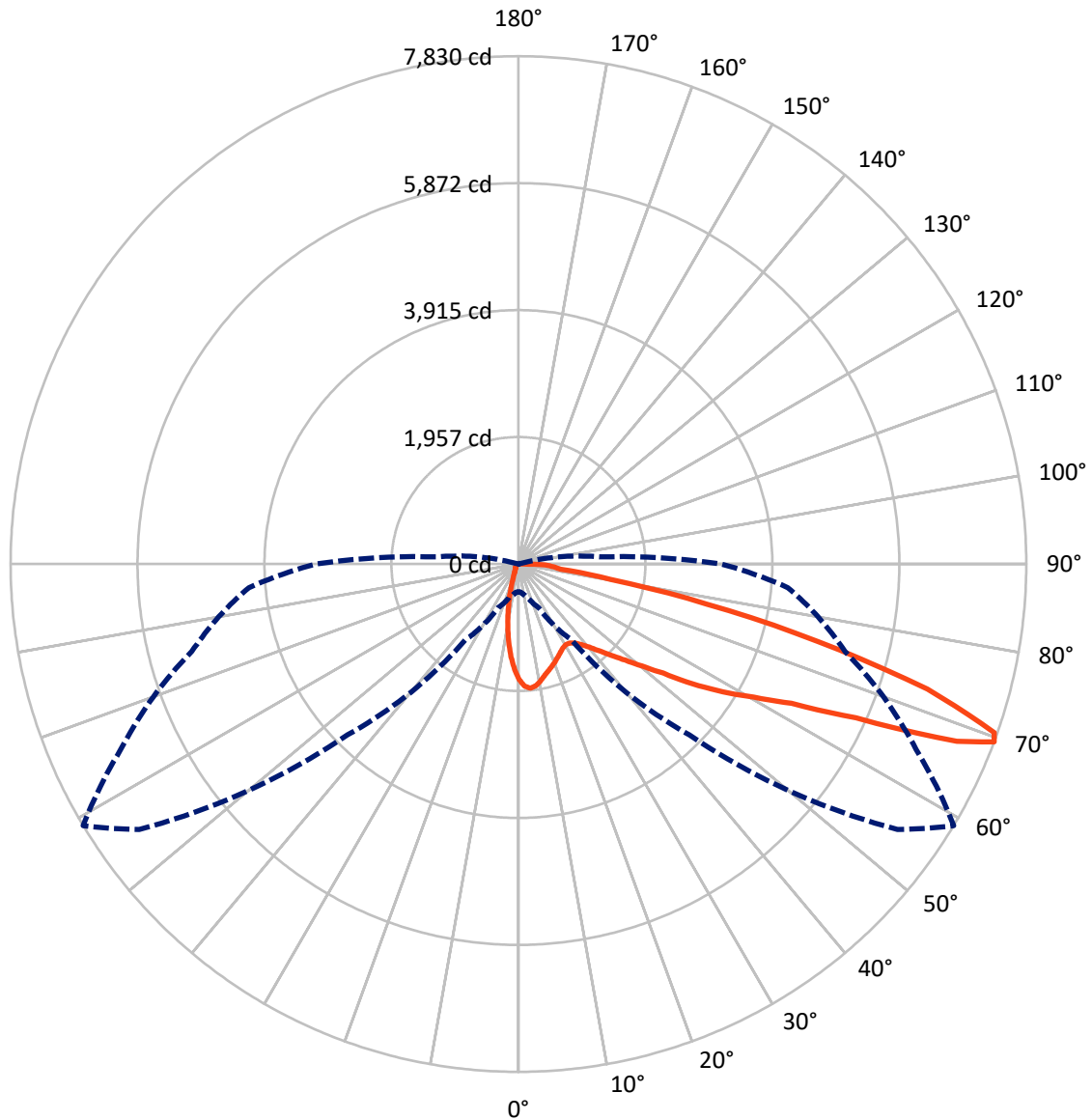


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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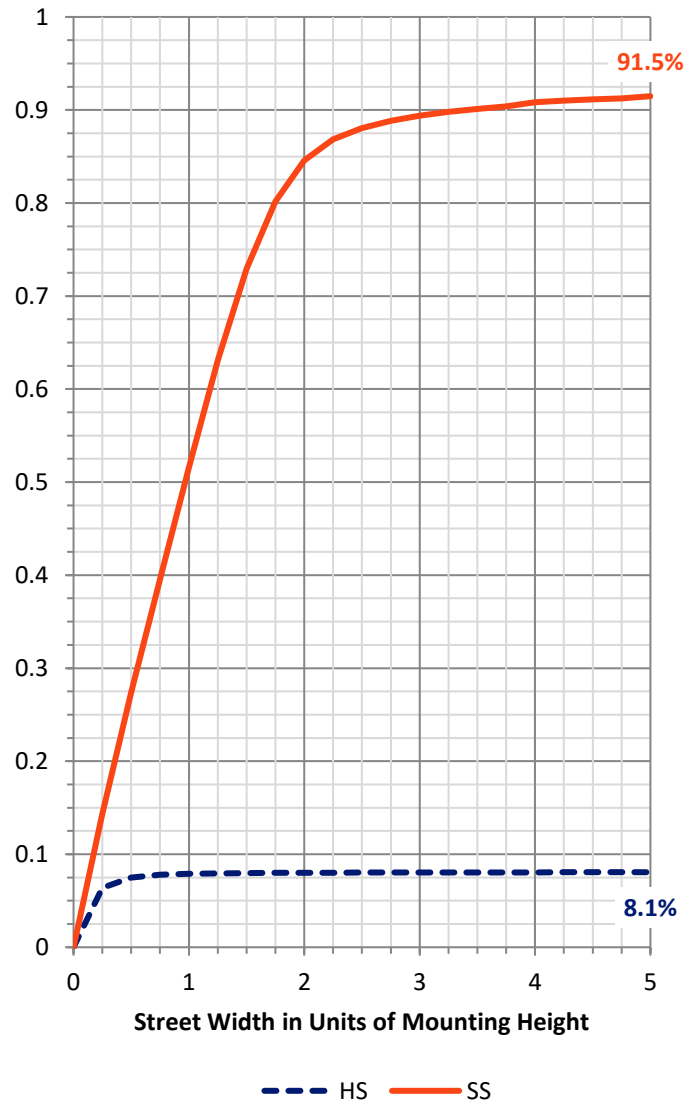
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.7	0.0	558.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6301.4	0.0	6301.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	6860.0	0.0	6860.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	2.1
10°-20°	299.5	4.4
20°-30°	403.0	5.9
30°-40°	585.1	8.5
40°-50°	974.2	14.2
50°-60°	1519.8	22.2
60°-70°	1880.6	27.4
70°-80°	953.1	13.9
80°-90°	99.7	1.5
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°	6860.0	100.0
0°-180°	6860.0	100.0



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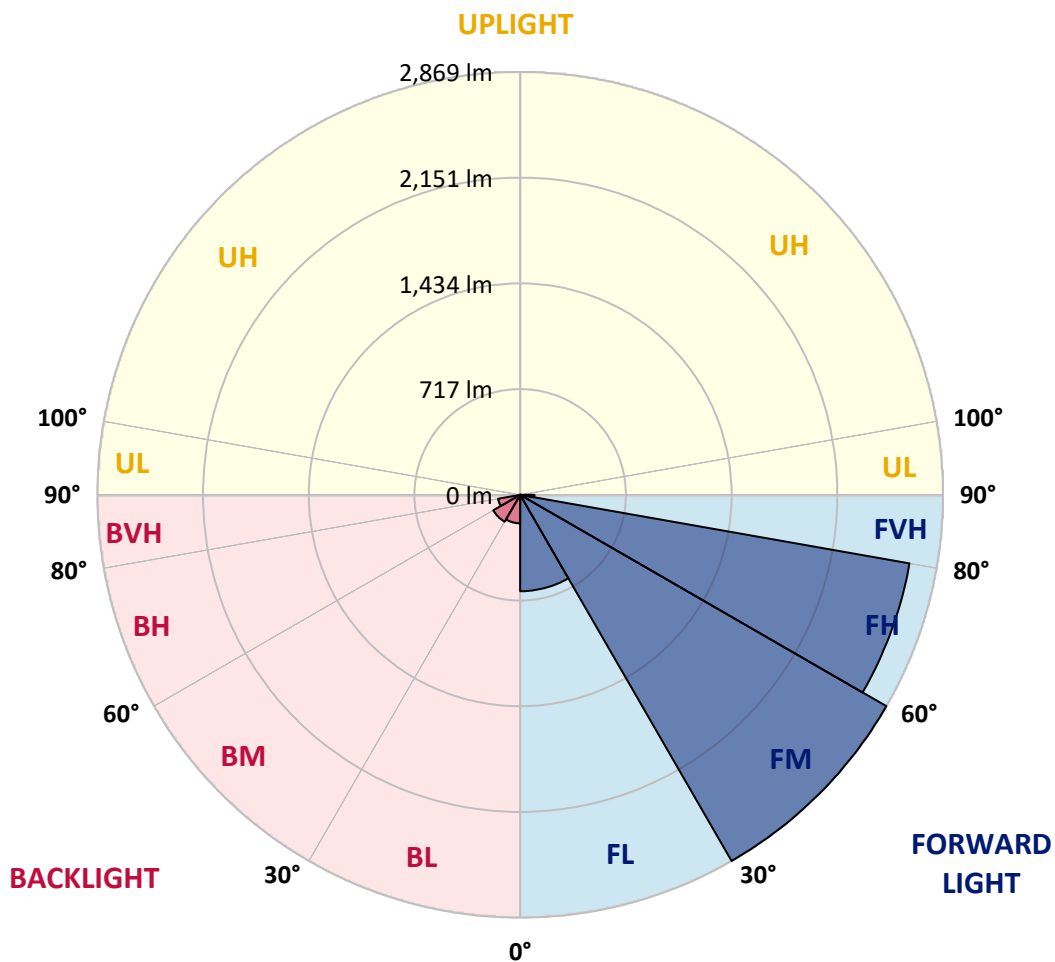
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.0	9.5			
FM	(30°-60°)	2868.7	41.8			
FH	(60°-80°)	2682.0	39.1			G2/5000
FVH	(80°-90°)	96.7	1.4			G1/100
BL	(0°-30°)	193.4	2.8	B1/500		
BM	(30°-60°)	210.5	3.1	B0/220		
BH	(60°-80°)	151.7	2.2	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6
2.5°	1957.0	1956.2	1947.7	1943.8	1936.8	1922.1	1899.2	1887.2	1867.8	1834.1	1788.7
5°	1939.2	1948.5	1953.5	1953.9	1959.0	1953.5	1933.0	1922.9	1896.1	1841.8	1760.3
7.5°	1818.1	1821.6	1836.0	1848.4	1872.5	1895.3	1902.7	1898.4	1882.5	1824.4	1716.1
10°	1688.6	1692.1	1709.1	1725.4	1758.0	1793.3	1830.6	1838.3	1844.9	1799.5	1673.5
12.5°	1576.9	1580.4	1597.8	1619.1	1657.2	1700.6	1758.4	1771.2	1800.3	1775.9	1639.3
15°	1480.7	1482.2	1499.3	1525.7	1571.0	1626.9	1692.5	1713.0	1757.6	1759.2	1609.5
17.5°	1398.8	1402.7	1413.2	1438.4	1488.0	1557.1	1633.5	1663.0	1715.4	1745.2	1580.4
20°	1348.8	1352.7	1352.3	1366.2	1410.8	1484.5	1574.5	1609.8	1673.5	1730.9	1554.4
22.5°	1339.1	1339.1	1329.0	1327.1	1353.4	1415.1	1513.2	1556.3	1635.8	1724.7	1536.1
25°	1373.6	1372.0	1346.8	1326.3	1327.4	1364.3	1453.9	1505.1	1604.0	1728.9	1526.4
27.5°	1446.5	1444.6	1412.8	1373.6	1342.2	1341.8	1408.9	1464.0	1578.8	1749.1	1530.3
30°	1547.4	1546.6	1512.1	1462.8	1405.8	1353.4	1393.4	1443.4	1562.5	1785.6	1539.2
32.5°	1657.6	1656.4	1630.4	1578.4	1506.3	1405.8	1409.7	1451.6	1567.2	1834.1	1561.0
35°	1774.3	1772.4	1761.1	1715.7	1636.2	1502.4	1463.2	1495.8	1596.6	1906.6	1603.6
37.5°	1900.8	1902.7	1910.9	1867.4	1784.0	1637.8	1552.8	1574.9	1656.0	2005.1	1673.1
40°	2087.4	2087.0	2089.7	2032.7	1952.4	1803.4	1678.1	1685.1	1755.3	2135.8	1778.6
42.5°	2426.0	2402.3	2330.6	2214.2	2133.5	1992.7	1836.0	1828.6	1876.7	2297.6	1926.4
45°	2881.0	2830.6	2644.4	2421.4	2318.2	2206.1	2030.3	2006.7	2037.3	2492.0	2108.7
47.5°	3272.4	3220.1	2956.7	2637.0	2514.1	2408.6	2258.0	2215.4	2225.5	2709.6	2339.9
50°	3405.5	3379.9	3149.9	2824.8	2703.8	2663.4	2522.2	2470.2	2455.9	2961.3	2607.9
52.5°	3359.3	3357.4	3204.2	2946.6	2877.5	2927.2	2854.7	2794.5	2741.8	3226.7	2880.6
55°	3285.2	3294.9	3226.3	3053.3	3050.9	3168.1	3309.3	3259.2	3106.4	3514.9	3115.7
57.5°	3080.8	3122.3	3213.9	3255.0	3350.4	3470.3	3687.9	3717.4	3536.6	3735.6	3310.8
60°	2499.7	2590.9	2890.3	3284.1	3736.4	4035.1	4144.8	4170.1	3889.6	3919.1	3574.2
62.5°	1774.3	1867.4	2247.2	2913.2	3742.2	4777.1	4825.6	4726.7	4278.3	4191.0	4028.5
65°	941.9	1013.6	1323.9	2102.9	3244.5	4949.4	6016.1	5721.3	4964.1	4725.9	4615.4
67.5°	481.8	503.5	626.9	1029.1	2230.5	4396.2	7083.3	7290.8	6146.1	5256.6	4587.1
69°	426.3	439.1	521.0	744.0	1428.3	3723.6	7135.3	7829.6	6764.8	5212.4	4168.5
70°	412.7	424.0	498.5	673.4	1116.4	3122.7	6936.3	7782.3	6923.1	5044.0	3855.9
72.5°	350.3	360.0	443.8	595.1	907.3	1550.1	5634.4	6594.5	6212.4	4201.9	2791.0
75°	234.3	266.1	425.9	557.8	844.1	880.6	3714.7	4765.5	4426.9	2834.1	1453.9
77.5°	56.2	60.5	120.3	443.8	771.9	775.1	1910.5	2962.5	2416.3	1010.1	343.7
80°	30.3	29.1	33.7	88.1	718.8	727.3	860.0	1438.0	862.7	167.6	113.3
82.5°	21.3	20.2	21.7	36.9	226.2	662.6	622.2	650.9	357.7	64.4	50.8
85°	7.8	7.4	12.0	33.4	71.0	380.9	639.3	536.9	289.8	29.5	37.2
87.5°	2.7	2.3	4.7	18.2	21.7	162.1	394.5	405.8	114.0	17.8	17.5
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°	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6
2.5°	1769.7	1745.6	1701.4	1656.0	1614.1	1563.7	1538.5	1513.6	1503.2	1499.3	1481.1
5°	1718.5	1677.7	1583.8	1489.6	1402.7	1310.4	1249.5	1200.6	1171.9	1157.9	1135.8
7.5°	1652.9	1586.2	1443.8	1298.3	1163.0	1029.5	930.6	854.6	802.2	777.0	754.1
10°	1589.3	1500.4	1298.0	1099.7	915.9	739.0	602.4	503.5	440.3	411.2	392.6
12.5°	1532.3	1417.0	1157.1	906.2	675.4	468.2	329.3	250.6	211.4	197.8	191.2
15°	1481.4	1340.2	1024.1	722.3	457.3	267.7	180.0	153.2	147.0	147.0	146.2
17.5°	1433.3	1265.0	895.7	549.7	287.1	163.7	136.9	133.4	133.4	135.0	135.0
20°	1387.2	1193.2	771.6	394.5	180.8	130.0	123.7	123.0	123.7	125.7	125.7
22.5°	1347.6	1128.1	655.6	270.8	134.2	117.1	114.0	112.9	113.3	114.4	115.2
25°	1318.1	1073.0	546.2	183.5	115.6	106.7	103.2	101.2	99.7	99.7	100.5
27.5°	1299.5	1026.4	440.3	133.4	104.0	97.0	91.5	88.4	85.0	83.0	83.8
30°	1285.9	982.2	341.0	109.0	93.1	86.1	79.1	74.1	69.0	66.7	67.5
32.5°	1280.9	946.5	254.9	96.2	83.4	75.6	67.1	60.5	55.1	53.1	53.5
35°	1294.5	918.2	186.6	86.9	75.6	65.9	56.2	48.9	44.6	43.4	43.8
37.5°	1330.2	903.1	139.6	79.1	68.7	57.8	46.9	40.0	37.2	37.2	37.6
40°	1397.7	902.7	112.1	73.7	62.5	50.0	38.8	33.7	32.2	33.0	33.4
42.5°	1496.2	923.2	97.8	68.7	57.0	42.7	32.2	28.7	28.3	29.1	29.5
45°	1630.8	960.9	90.0	64.4	51.2	35.7	27.2	24.8	24.8	26.0	26.4
47.5°	1795.6	1015.9	83.4	60.1	45.4	29.9	23.3	21.7	22.1	23.3	23.7
50°	1994.3	1085.4	76.8	55.5	41.1	24.8	20.2	19.0	19.4	20.9	21.3
52.5°	2220.4	1178.9	71.4	51.2	35.7	20.6	17.1	16.3	17.1	18.6	19.0
55°	2414.4	1262.7	64.8	47.7	28.7	17.1	14.0	14.0	14.7	16.7	17.1
57.5°	2601.0	1350.3	59.0	41.1	22.5	13.6	11.6	12.0	13.2	15.1	15.5
60°	2874.8	1498.9	52.0	34.5	17.1	10.9	9.7	10.1	11.6	13.6	14.0
62.5°	3339.9	1725.0	45.0	28.7	13.2	8.5	7.8	8.5	10.5	12.8	13.2
65°	3759.7	1817.0	36.9	24.1	10.1	6.6	6.6	7.8	10.1	12.4	12.8
67.5°	3525.7	1529.5	28.7	19.0	7.8	5.0	5.4	7.4	9.7	12.4	12.8
69°	3118.0	1250.6	24.4	15.1	6.6	4.7	5.0	7.4	9.7	12.0	12.4
70°	2800.3	1055.9	21.7	12.8	5.8	4.7	5.0	7.0	9.7	12.0	12.4
72.5°	1875.6	570.2	17.5	9.3	5.4	4.3	4.3	7.0	9.3	11.6	12.0
75°	806.1	157.5	14.0	6.6	4.7	3.9	3.9	6.6	8.9	11.2	12.0
77.5°	147.4	40.0	11.2	5.8	4.7	3.9	3.5	6.2	8.5	10.9	11.2
80°	58.6	19.8	8.9	5.0	4.3	3.5	3.1	5.8	8.1	10.5	10.9
82.5°	35.3	11.2	7.4	4.7	4.3	3.1	2.7	5.0	7.8	10.1	10.5
85°	28.7	7.8	5.8	4.7	3.9	3.1	2.3	4.7	7.0	9.7	10.1
87.5°	14.0	5.4	5.4	4.3	3.9	3.1	2.3	4.3	6.6	9.3	9.7
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)