

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: P382956

Luminaire Tested: **GLEON-SA3A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10193 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

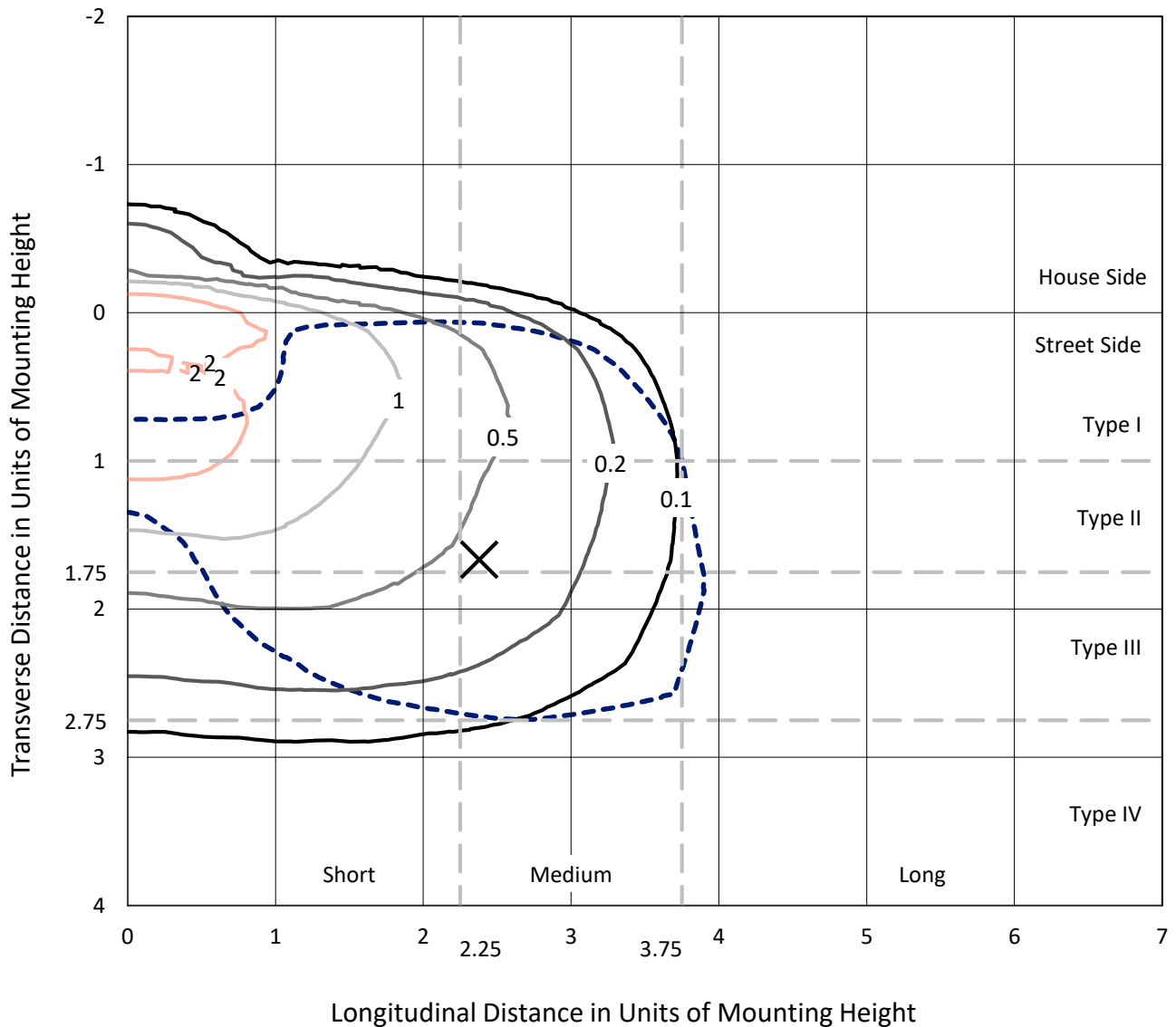
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

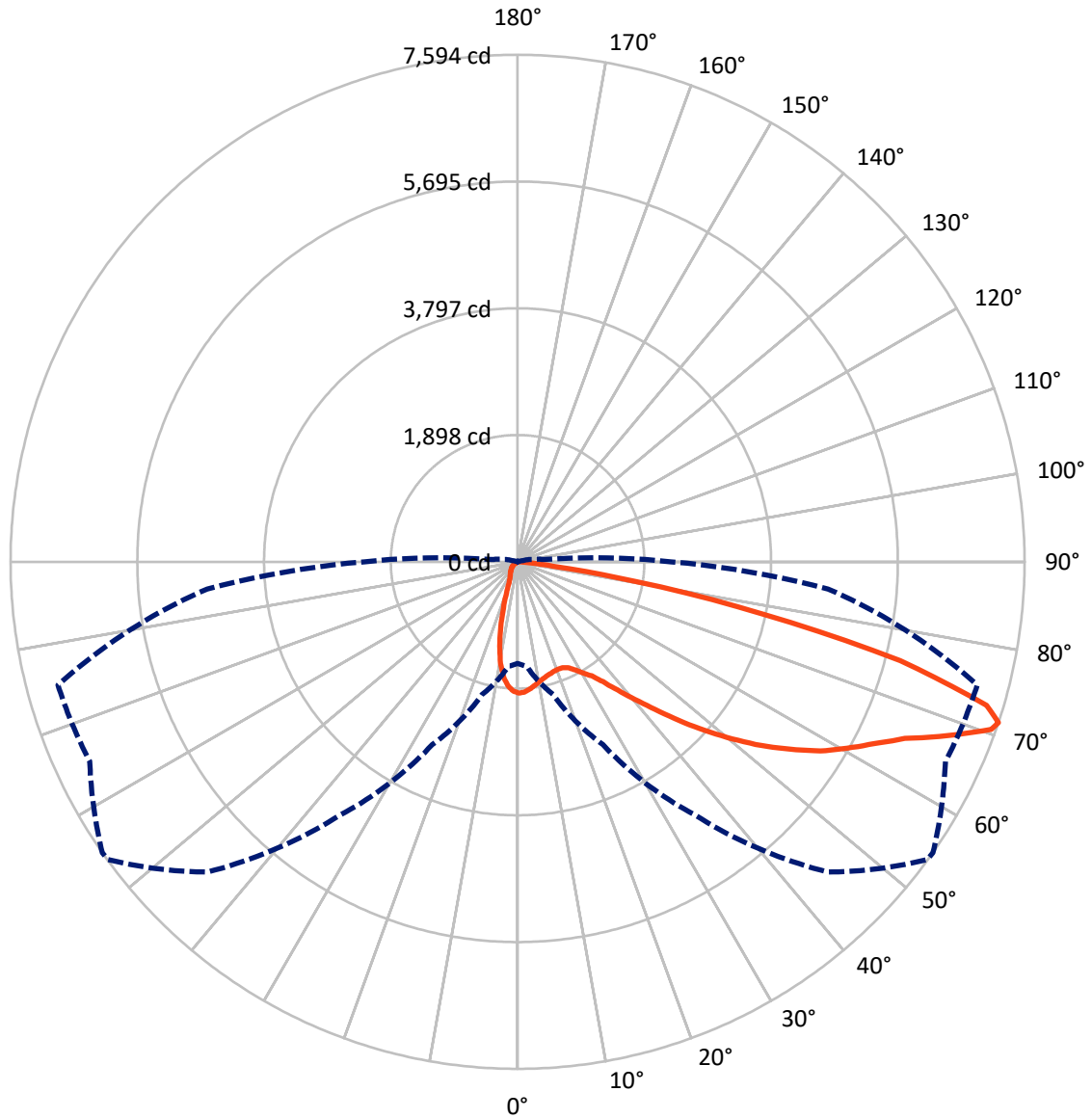
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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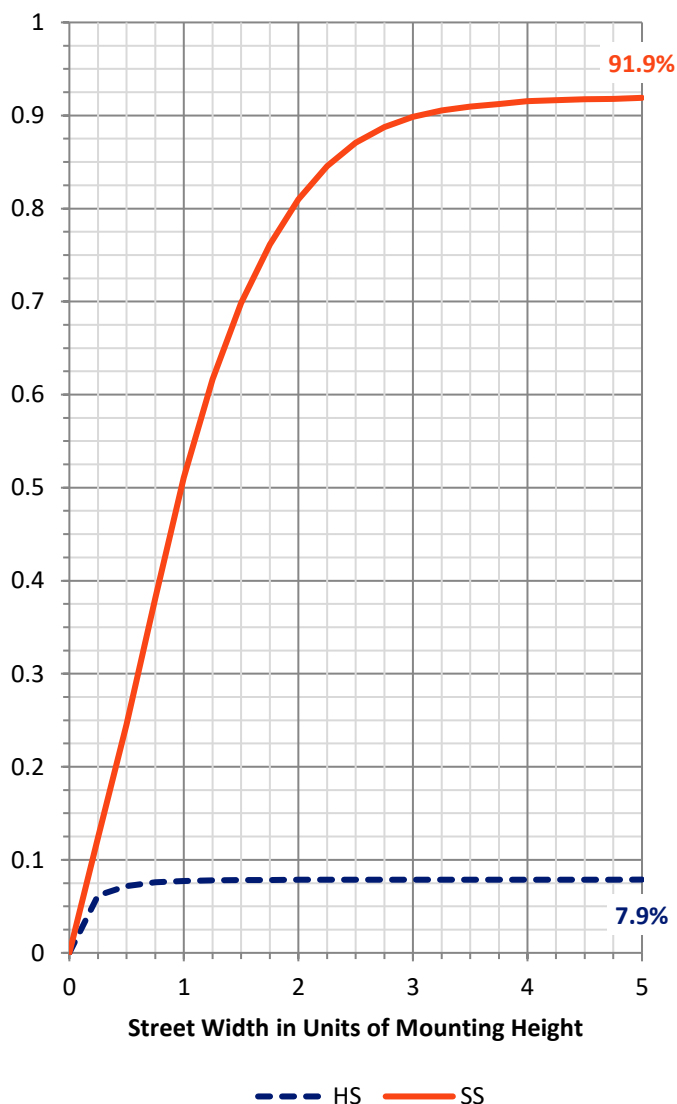
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.0	0.0	807.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	9386.0	0.0	9386.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	10193.0	0.0	10193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	1.6
10°-20°	378.4	3.7
20°-30°	608.1	6.0
30°-40°	1033.2	10.1
40°-50°	1603.6	15.7
50°-60°	2156.0	21.2
60°-70°	2637.5	25.9
70°-80°	1542.1	15.1
80°-90°	66.7	0.7
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°	10193.0	100.0
0°-180°	10193.0	100.0

Coefficient of Utilization

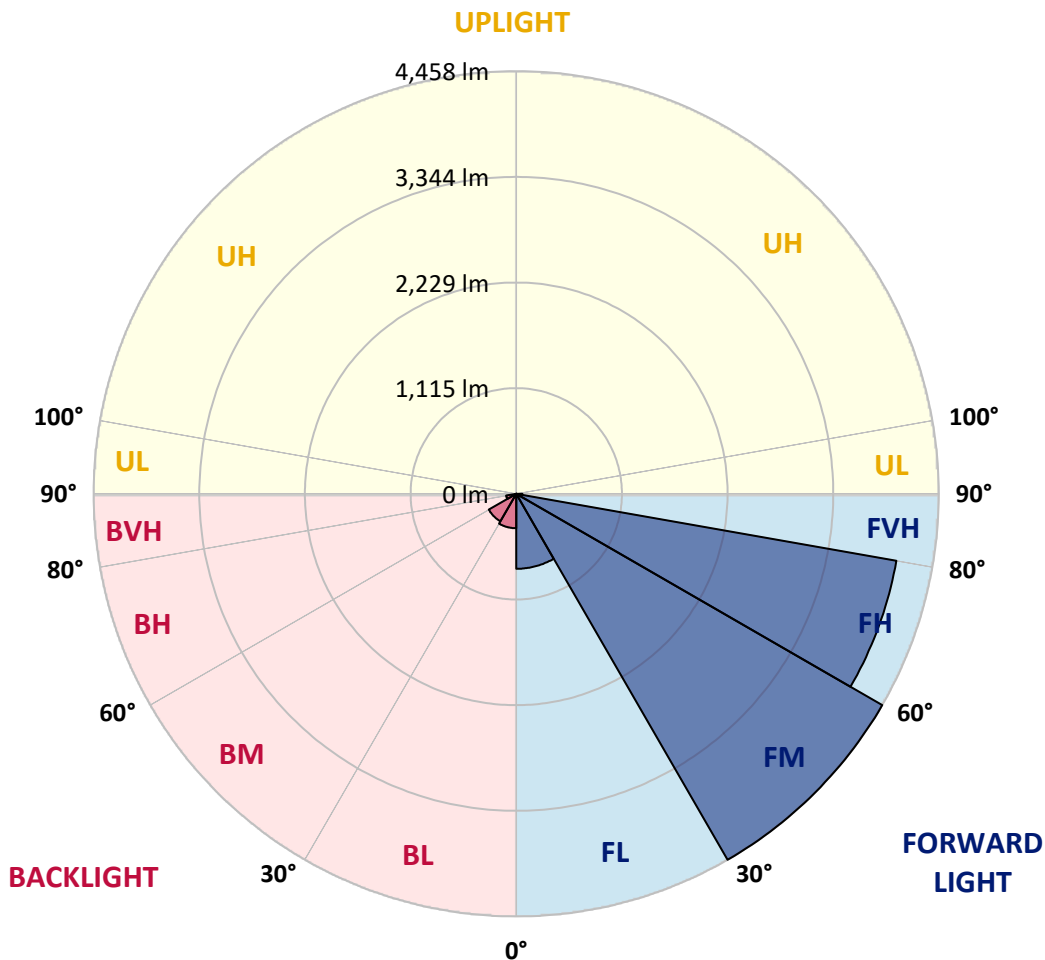


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.8	7.8			
FM (30°-60°)	4458.1	43.7			
FH (60°-80°)	4071.4	39.9			G2/5000
FVH (80°-90°)	65.6	0.6			G1/100
BL (0°-30°)	363.2	3.6	B1/500		
BM (30°-60°)	334.6	3.3	B1/1000		
BH (60°-80°)	108.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	1908.1	1910.4	1918.6	1922.2	1931.0	1945.6	1952.9	1953.4	1965.3	1969.9	1973.6
5°	1773.1	1786.8	1800.5	1815.2	1841.8	1877.0	1911.7	1915.0	1953.4	1981.8	1996.9
7.5°	1656.9	1669.1	1685.6	1709.0	1746.6	1801.9	1860.0	1866.9	1939.7	2004.2	2038.0
10°	1537.3	1547.4	1571.2	1605.5	1657.3	1731.4	1809.7	1821.1	1927.3	2034.4	2093.9
12.5°	1409.7	1415.6	1444.5	1493.9	1569.8	1664.1	1767.1	1782.2	1919.5	2069.2	2159.8
15°	1312.6	1315.3	1342.8	1394.1	1481.1	1603.8	1734.2	1752.5	1921.3	2110.9	2231.7
17.5°	1288.0	1289.3	1304.0	1339.2	1416.0	1549.7	1708.1	1730.5	1926.8	2151.6	2304.0
20°	1388.2	1378.5	1363.4	1357.9	1390.9	1517.2	1692.5	1717.7	1934.2	2187.7	2369.0
22.5°	1663.2	1634.9	1572.2	1488.4	1437.6	1519.5	1696.6	1721.8	1957.6	2232.2	2444.0
25°	2071.5	2032.1	1925.5	1760.7	1602.4	1585.4	1731.0	1756.6	2002.8	2285.2	2515.9
27.5°	2536.0	2497.1	2366.7	2131.5	1861.4	1715.8	1809.7	1833.5	2070.1	2332.3	2570.8
30°	2980.9	2970.0	2816.2	2548.8	2187.3	1927.3	1911.3	1931.5	2120.0	2360.7	2614.3
32.5°	3358.0	3340.6	3217.1	2957.1	2560.3	2181.3	2030.8	2036.7	2157.6	2397.3	2671.0
35°	3707.7	3686.2	3577.7	3332.0	2942.9	2491.6	2214.8	2206.0	2239.4	2471.0	2753.5
37.5°	4013.0	4032.7	3912.3	3678.4	3286.2	2814.3	2462.8	2436.7	2367.6	2590.9	2872.9
40°	4268.4	4268.4	4205.7	4010.7	3656.9	3148.0	2743.4	2709.0	2560.3	2775.8	3024.4
42.5°	4360.4	4380.0	4403.4	4293.0	3988.7	3494.9	3055.9	3020.3	2831.7	3038.1	3215.7
45°	4365.9	4397.0	4516.4	4516.0	4288.5	3839.6	3408.3	3391.5	3179.6	3375.0	3452.8
47.5°	4288.5	4327.4	4524.2	4635.8	4526.0	4160.4	3793.7	3772.7	3588.2	3787.8	3700.9
50°	4169.0	4212.1	4440.9	4683.0	4687.6	4439.6	4199.7	4168.1	4038.2	4259.7	3957.1
52.5°	3955.4	4038.6	4366.3	4694.0	4793.7	4680.7	4586.0	4572.3	4541.6	4714.2	4161.2
55°	3498.1	3590.6	4179.1	4697.7	4892.2	4894.4	4948.0	4951.7	5013.5	5138.9	4313.3
57.5°	3282.0	3334.2	3852.3	4715.0	5038.2	5137.0	5316.9	5345.3	5441.0	5542.1	4486.7
60°	3146.1	3207.9	3691.3	4691.3	5267.5	5455.1	5658.8	5668.5	5770.9	5958.2	4721.5
62.5°	3037.7	3098.5	3589.6	4599.7	5525.2	5837.7	5992.9	5993.9	6070.7	6453.9	4988.3
65°	2769.9	2821.2	3384.1	4496.8	5695.4	6216.3	6381.0	6375.0	6437.8	6976.5	5298.2
67.5°	2382.7	2422.0	2964.5	4106.4	5631.4	6560.4	6966.9	6947.2	6871.2	7428.3	5419.9
70°	1842.1	1856.4	2336.5	3422.1	5030.8	6692.7	7533.1	7523.0	7137.1	7347.2	4973.6
71°	1522.7	1569.4	2059.1	3020.3	4628.6	6570.5	7587.9	7593.9	7070.4	7126.6	4666.6
72.5°	884.2	924.1	1492.5	2319.6	3929.6	6060.6	7303.2	7346.3	6758.2	6482.2	3986.0
75°	189.5	202.8	553.3	1122.7	2161.7	4247.8	5764.5	5917.8	5508.2	4409.8	2402.4
77.5°	131.8	142.3	237.1	509.4	714.4	2099.0	3581.0	3754.0	3290.8	1657.3	768.9
80°	104.3	116.3	184.9	251.7	193.1	677.0	1677.4	1783.2	1097.5	369.8	129.5
82.5°	58.1	69.1	144.2	135.9	74.2	128.6	469.6	530.9	219.7	74.6	30.6
85°	17.0	20.6	92.9	98.8	31.6	24.7	80.1	99.3	41.6	19.7	13.7
87.5°	0.0	0.0	44.8	38.0	9.1	3.6	7.4	8.2	8.2	8.2	9.1
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°	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	1973.6	1976.7	1965.3	1950.2	1934.2	1914.5	1893.9	1877.9	1877.4	1869.6	1861.9
5°	1997.8	1995.9	1964.4	1916.3	1859.6	1800.5	1744.2	1680.6	1659.6	1633.5	1624.8
7.5°	2042.6	2029.8	1963.1	1857.8	1733.2	1609.7	1482.0	1353.4	1298.5	1249.0	1240.4
10°	2099.0	2074.6	1954.3	1769.8	1541.5	1313.6	1120.8	946.1	869.1	810.1	807.4
12.5°	2157.6	2120.5	1930.1	1637.1	1290.2	969.8	747.8	575.8	511.7	470.5	474.2
15°	2218.9	2163.5	1877.9	1458.2	1004.1	658.1	459.5	358.4	332.7	322.2	324.9
17.5°	2281.5	2193.2	1805.2	1242.6	721.8	424.7	318.1	289.7	289.7	292.0	292.9
20°	2336.0	2209.3	1698.0	1000.9	489.2	309.4	278.3	274.2	276.5	280.1	280.6
22.5°	2390.1	2210.2	1558.4	756.1	342.3	271.0	265.0	263.2	264.6	268.7	269.1
25°	2433.9	2199.2	1383.5	537.8	273.2	255.4	252.6	251.7	252.6	257.7	257.7
27.5°	2451.8	2159.3	1170.3	378.0	244.9	238.0	237.1	238.0	239.4	243.0	243.5
30°	2453.6	2089.8	937.8	273.7	222.0	214.6	216.5	219.7	218.4	217.4	218.4
32.5°	2458.3	2009.3	711.2	225.2	202.8	191.3	189.0	189.0	183.5	180.3	178.5
35°	2473.4	1914.5	515.8	202.3	183.0	169.8	161.1	151.0	140.5	135.0	133.7
37.5°	2497.1	1815.2	369.4	187.1	165.7	150.5	134.1	116.3	101.2	97.1	97.1
40°	2540.6	1712.7	273.2	175.3	151.9	133.2	108.4	85.1	71.4	69.1	69.1
42.5°	2609.3	1604.7	217.9	164.8	140.0	115.3	82.8	61.8	51.7	50.3	49.9
45°	2680.6	1485.6	190.4	154.7	127.2	94.7	61.3	45.7	39.8	38.5	38.5
47.5°	2752.1	1358.8	177.1	145.0	114.9	73.7	45.7	36.1	33.4	33.4	33.9
50°	2812.4	1226.6	167.5	134.5	98.8	55.8	36.1	30.6	29.7	31.6	32.0
52.5°	2827.6	1096.6	155.6	121.3	79.2	42.6	29.7	27.0	27.0	27.0	27.0
55°	2818.4	995.9	140.0	104.8	58.6	33.9	25.6	23.8	23.4	23.4	23.4
57.5°	2849.5	936.4	112.2	81.5	42.1	27.5	22.5	21.1	20.1	19.7	19.7
60°	2912.2	897.5	80.1	58.6	31.6	22.9	19.2	17.9	16.5	15.6	15.6
62.5°	2995.6	863.6	59.5	43.5	24.2	18.4	16.0	14.6	12.9	11.9	11.9
65°	3059.7	803.3	45.3	32.5	18.4	14.6	12.4	11.9	9.1	8.2	7.8
67.5°	2961.7	670.5	36.6	23.8	13.7	11.5	9.6	9.1	5.5	4.6	4.6
70°	2540.1	466.8	29.3	17.4	10.1	9.1	7.8	6.0	4.1	3.6	3.6
71°	2303.5	389.9	26.5	14.6	8.7	8.7	7.4	5.0	3.6	3.2	3.2
72.5°	1913.6	276.9	22.5	11.5	7.8	9.1	7.8	4.6	3.6	3.2	2.7
75°	1110.8	115.8	15.6	7.8	6.0	11.0	10.1	4.1	2.7	2.3	2.3
77.5°	334.1	42.6	8.7	5.0	4.6	9.6	11.5	3.6	1.4	0.5	0.5
80°	60.8	18.4	5.5	3.2	3.2	6.0	8.7	1.9	0.0	0.0	0.0
82.5°	21.5	9.1	3.2	1.9	1.4	2.7	4.1	0.0	0.0	0.0	0.0
85°	12.4	6.4	1.9	0.9	0.0	0.5	0.9	0.0	0.0	0.0	0.0
87.5°	8.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)