

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: P383014

Luminaire Tested: **GLEON-SA3C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14284.4 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

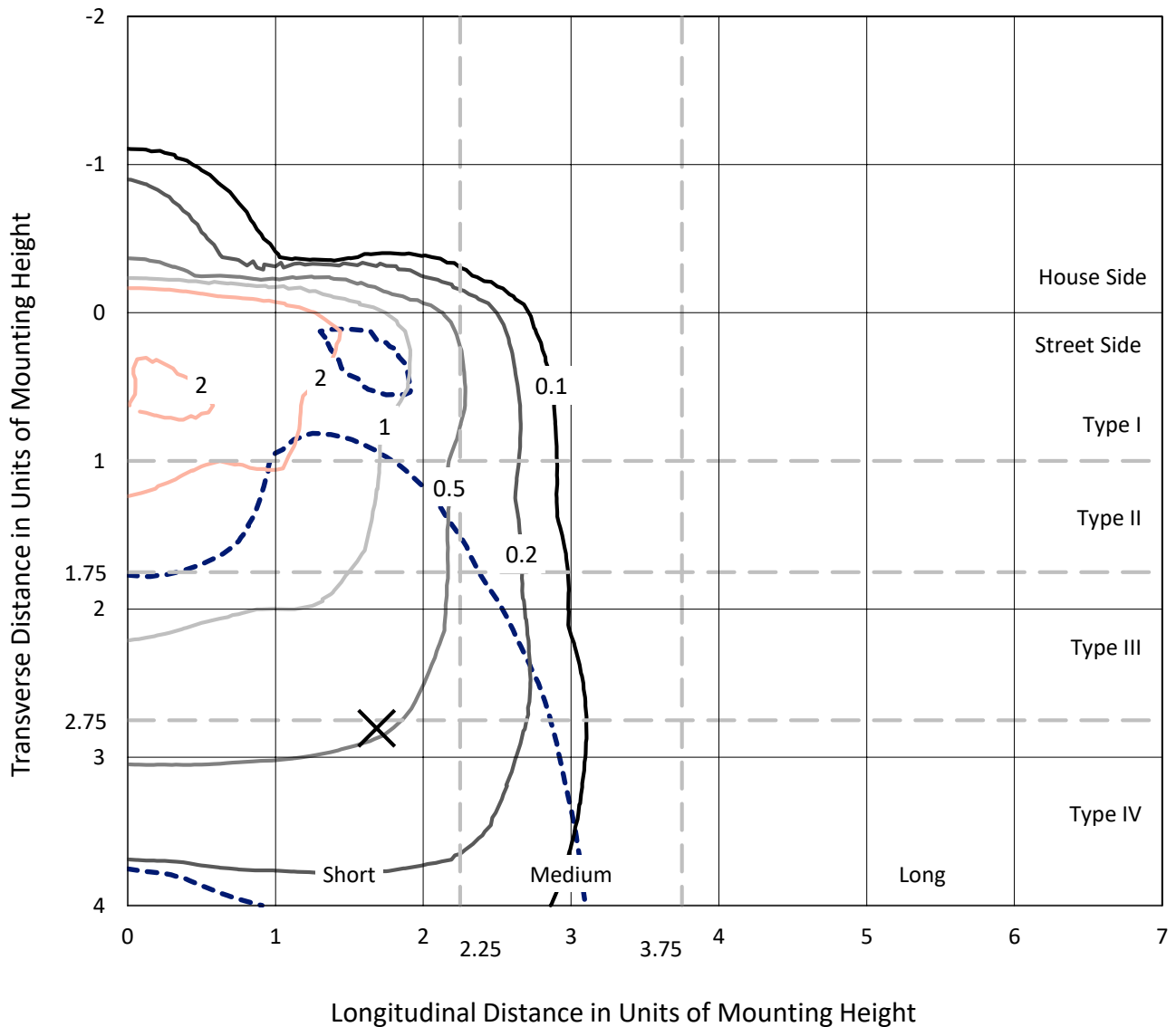
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

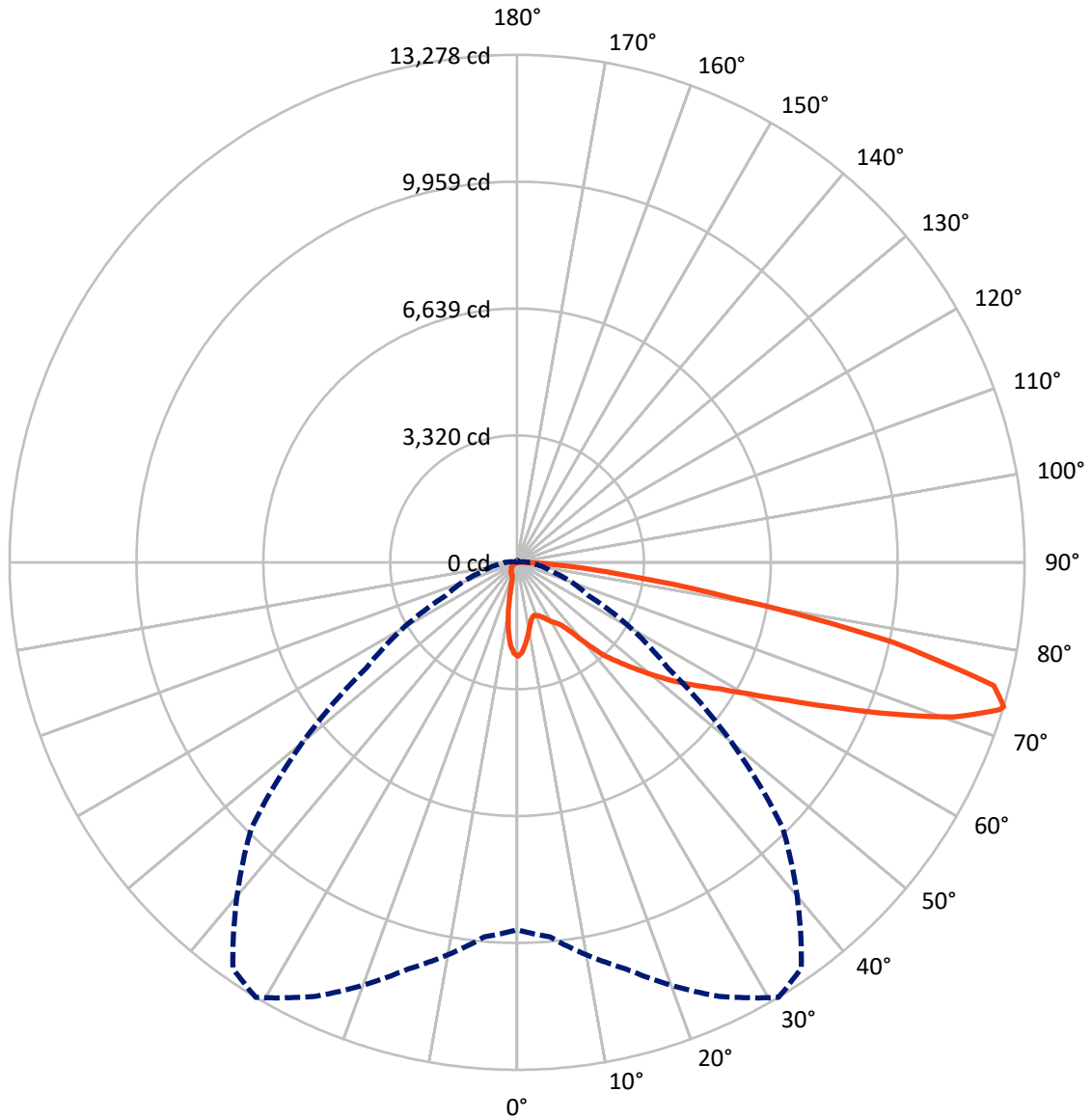
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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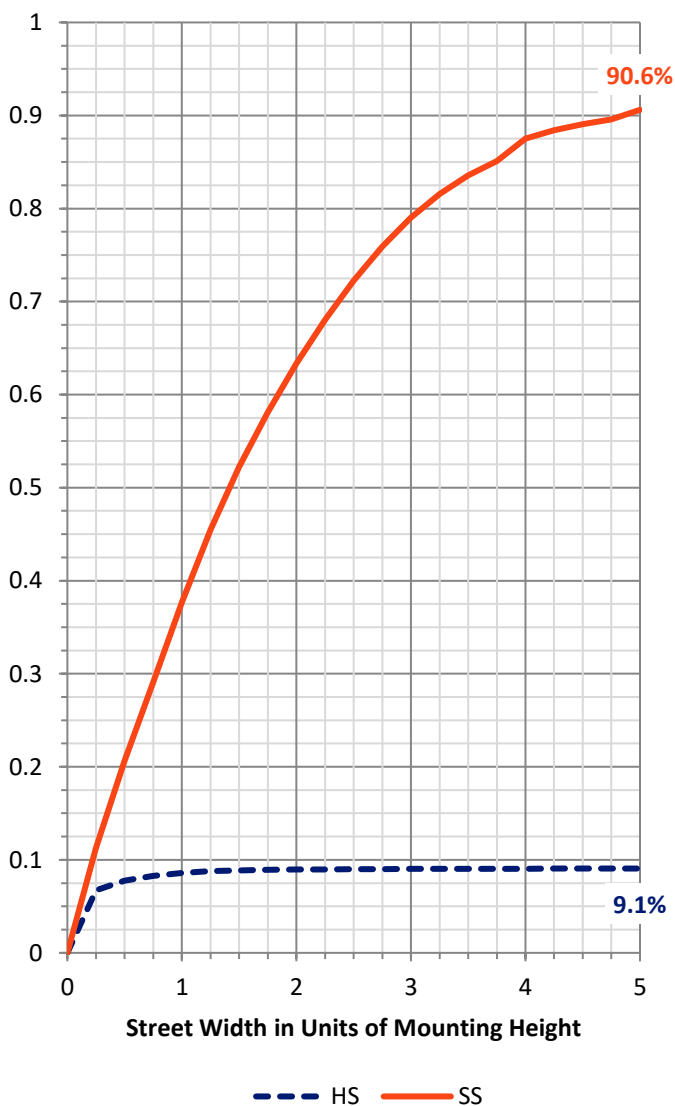
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.1	0.0	1302.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12982.3	0.0	12982.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	14284.4	0.0	14284.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.4
10°-20°	442.5	3.1
20°-30°	662.9	4.6
30°-40°	1054.7	7.4
40°-50°	1883.4	13.2
50°-60°	2922.5	20.5
60°-70°	3885.1	27.2
70°-80°	2922.4	20.5
80°-90°	307.1	2.1
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°	14284.4	100.0
0°-180°	14284.4	100.0

Coefficient of Utilization



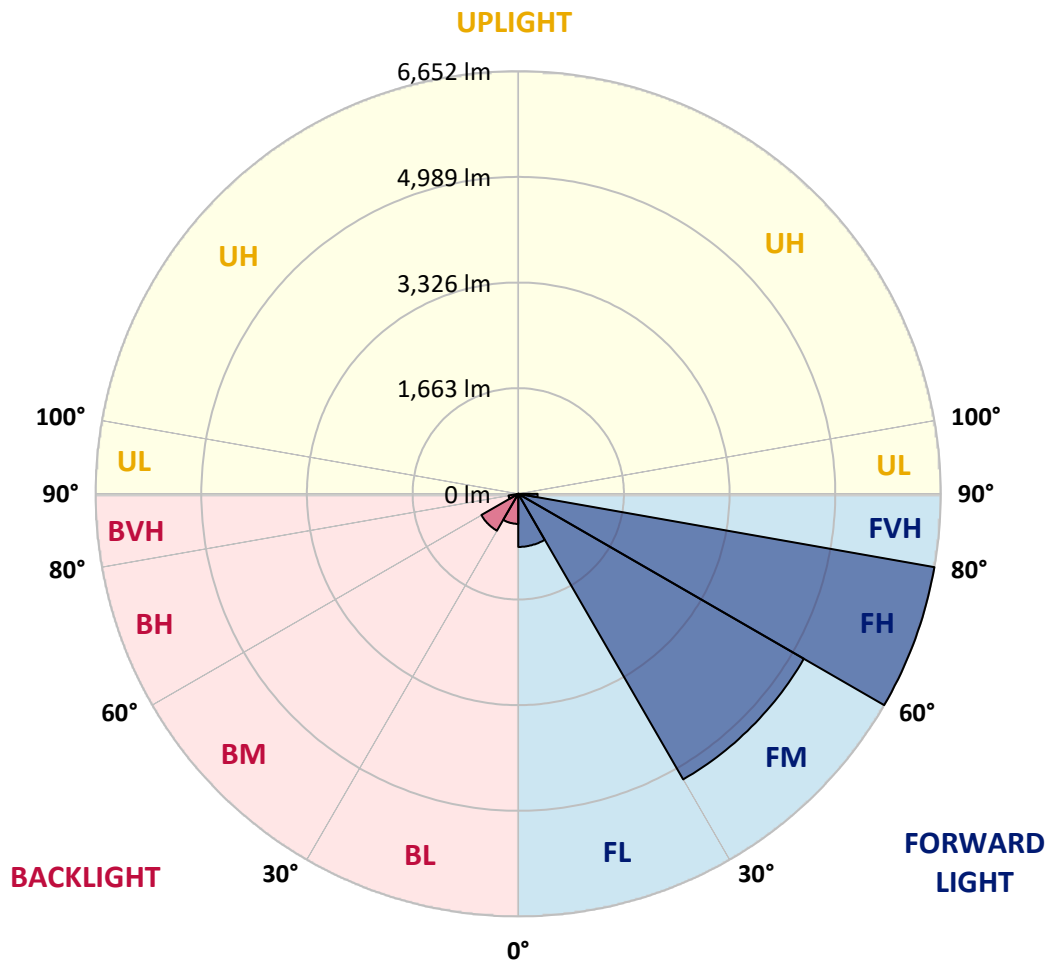
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.7	5.9			
FM (30°-60°)	5190.4	36.3			
FH (60°-80°)	6651.7	46.6			G3/7500
FVH (80°-90°)	304.5	2.1			G3/500
BL (0°-30°)	473.5	3.3	B1/500		
BM (30°-60°)	670.2	4.7	B1/1000		
BH (60°-80°)	155.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6
2.5°	2329.1	2338.8	2349.3	2351.4	2368.9	2369.6	2394.7	2413.6	2432.5	2450.6	2457.0
5°	2090.0	2106.0	2125.0	2143.8	2180.8	2195.6	2257.0	2319.9	2380.1	2437.4	2465.3
7.5°	1834.9	1853.0	1879.6	1926.4	1967.6	1996.3	2093.5	2205.3	2317.1	2422.7	2483.5
10°	1602.1	1618.8	1646.8	1696.4	1760.1	1799.2	1929.9	2085.1	2249.3	2409.4	2510.8
12.5°	1453.9	1463.0	1478.4	1531.5	1588.8	1632.8	1786.6	1978.9	2193.4	2408.7	2554.8
15°	1426.7	1429.5	1416.9	1440.6	1485.4	1528.0	1683.9	1892.9	2150.8	2419.9	2612.2
17.5°	1470.0	1468.6	1426.7	1423.9	1459.5	1494.5	1633.6	1833.5	2120.8	2445.8	2686.2
20°	1535.7	1530.8	1458.1	1444.8	1482.6	1515.4	1630.0	1811.1	2109.6	2489.1	2776.4
22.5°	1623.0	1614.7	1500.7	1486.7	1527.3	1561.6	1673.3	1832.7	2119.4	2547.1	2881.3
25°	1731.4	1718.8	1574.1	1558.8	1600.0	1634.2	1750.9	1895.0	2148.7	2617.7	3014.0
27.5°	1853.7	1835.5	1691.6	1651.7	1698.6	1734.2	1854.4	1990.1	2194.8	2692.5	3176.9
30°	1969.0	1945.3	1815.3	1749.5	1806.9	1846.7	1966.2	2103.2	2269.0	2807.9	3399.9
32.5°	2085.1	2058.5	1925.7	1847.4	1899.1	1942.5	2081.6	2259.1	2408.1	2984.0	3696.3
35°	2352.1	2324.1	2161.3	2032.0	2031.2	2055.7	2243.1	2472.3	2591.8	3229.3	4050.0
37.5°	2801.5	2785.5	2630.3	2384.9	2319.3	2292.0	2463.2	2726.7	2856.0	3567.0	4449.1
40°	3293.7	3279.7	3105.6	2883.3	2783.4	2716.3	2779.2	3081.2	3229.3	3979.4	4856.6
42.5°	3849.3	3782.9	3472.6	3406.2	3316.7	3265.7	3209.1	3518.0	3687.9	4428.1	5260.6
45°	4354.1	4242.2	3839.6	3738.9	3718.6	3731.2	3762.7	4105.1	4203.7	4961.4	5663.3
47.5°	4654.6	4566.5	4257.5	4161.1	4155.5	4238.6	4476.4	4768.5	4717.5	5426.3	6017.6
50°	4940.5	4860.8	4604.3	4628.0	4653.9	4767.1	5286.4	5450.8	5186.5	5847.8	6342.6
52.5°	5171.9	5050.2	4916.0	5049.5	5176.7	5359.2	6122.5	6063.1	5519.2	6183.2	6620.9
55°	5305.3	5250.1	5315.1	5449.4	5688.4	5984.7	6911.6	6572.6	5762.5	6489.4	6806.1
57.5°	5794.6	5686.3	5815.6	5931.6	6243.4	6657.9	7587.5	6952.1	5938.0	6678.8	6848.7
60°	6386.7	6299.3	6375.5	6568.4	6989.2	7476.4	8219.4	7261.8	6029.5	6800.5	6738.3
62.5°	7329.0	7213.6	7166.0	7382.0	7939.9	8471.8	8699.0	7476.4	6009.2	6746.6	6359.4
65°	8591.3	8471.8	8259.3	8455.0	9164.5	9539.8	9235.1	7521.9	5869.4	6311.1	5401.8
67.5°	9884.5	9797.7	9616.0	9945.9	10586.2	10707.1	9801.9	7411.4	5419.3	5117.3	3816.5
70°	10738.6	10701.5	10819.6	11549.4	12120.5	12085.5	10322.0	6818.0	4224.0	3146.9	1888.0
72.5°	10122.8	10300.3	11172.7	12495.9	13193.4	12908.3	10054.9	5235.5	2414.3	1210.6	545.9
73°	9612.5	9839.7	11014.0	12531.6	13278.0	12965.6	9830.6	4805.6	2057.8	955.5	413.8
75°	6687.2	6966.1	9118.4	11671.1	12882.4	12353.3	8194.3	2941.4	953.4	423.6	167.0
77.5°	3246.8	3453.1	5020.9	8432.6	10018.6	9651.7	5101.2	1096.1	430.6	264.9	76.9
80°	1212.0	1347.7	2179.4	4291.8	5789.8	5941.4	2243.7	414.5	286.5	213.2	39.1
82.5°	317.4	353.7	803.8	1913.9	2967.3	3105.6	707.4	209.0	209.7	175.4	23.8
85°	101.4	116.1	251.0	859.1	1398.0	1227.4	184.5	101.4	152.4	130.7	13.3
87.5°	12.6	16.1	79.6	202.1	308.2	171.2	28.7	30.1	65.0	72.7	7.7
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°	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6	2457.6
2.5°	2463.2	2459.8	2460.4	2442.2	2430.4	2406.7	2382.2	2371.0	2359.1	2354.2	2359.1
5°	2475.9	2469.5	2451.4	2395.5	2336.0	2259.1	2187.2	2132.6	2064.1	2045.2	2064.8
7.5°	2495.4	2482.9	2429.7	2315.7	2183.6	2036.8	1871.9	1751.7	1653.1	1589.5	1612.6
10°	2524.0	2500.3	2393.3	2199.8	1963.4	1703.4	1469.2	1286.8	1157.5	1104.4	1102.3
12.5°	2572.3	2527.6	2348.6	2048.8	1694.4	1347.7	1040.8	843.0	738.2	670.3	668.9
15°	2625.4	2559.7	2292.0	1867.7	1381.2	965.3	670.3	520.1	452.3	430.6	427.8
17.5°	2690.4	2596.8	2218.6	1644.7	1053.4	639.6	437.5	394.2	391.4	389.3	389.3
20°	2772.2	2640.8	2124.2	1389.6	747.2	427.1	371.9	374.7	376.1	373.3	373.9
22.5°	2867.3	2685.6	2011.7	1115.6	505.4	357.2	355.8	359.3	360.7	359.3	359.9
25°	2977.7	2737.3	1874.7	828.3	364.9	339.0	342.5	347.4	350.9	350.9	350.9
27.5°	3114.7	2800.1	1709.8	578.0	315.2	320.2	330.0	339.0	343.9	345.3	345.3
30°	3292.9	2878.5	1511.9	396.4	286.5	294.9	313.2	330.6	339.7	341.1	341.8
32.5°	3518.0	2966.5	1282.6	292.9	262.1	268.4	287.9	317.4	334.8	337.6	337.6
35°	3775.9	3068.6	1035.9	255.2	244.6	246.8	262.1	295.7	326.4	334.1	334.8
37.5°	4058.4	3169.2	787.7	238.4	230.0	230.0	241.2	269.8	306.2	330.0	332.7
40°	4321.8	3230.0	552.2	225.1	216.7	216.7	226.5	247.4	281.7	317.4	325.0
42.5°	4565.1	3251.0	384.4	212.5	204.1	206.2	214.6	231.4	257.2	292.9	299.9
45°	4815.4	3247.5	280.3	197.9	191.5	197.9	204.1	216.7	235.6	255.8	257.2
47.5°	5004.1	3218.1	222.3	183.8	179.6	188.0	193.6	202.1	212.5	211.1	211.1
50°	5180.9	3146.9	179.0	165.0	167.8	177.6	180.3	183.1	183.8	170.6	169.2
52.5°	5315.1	3035.7	143.3	144.7	155.8	165.6	162.8	158.6	151.7	135.6	132.8
55°	5359.8	2821.8	112.5	119.5	138.4	151.0	140.5	131.4	118.1	104.9	102.1
57.5°	5278.8	2545.7	91.6	93.0	116.7	127.2	115.3	104.9	90.2	79.0	76.9
60°	5106.8	2238.9	75.5	69.9	90.2	99.3	91.6	81.0	67.8	59.4	58.7
62.5°	4765.7	1911.7	62.2	54.5	68.5	76.2	71.3	63.6	52.4	46.9	46.1
65°	4048.6	1529.4	50.3	44.1	53.1	59.4	55.2	49.7	41.3	37.1	36.3
67.5°	2826.0	1033.8	41.3	36.3	41.9	46.9	43.3	40.5	32.9	32.1	32.9
70°	1363.0	498.4	34.3	29.3	32.9	36.3	34.9	32.9	31.5	36.3	41.9
72.5°	390.7	167.0	27.3	24.5	26.5	28.7	30.1	29.3	34.3	44.1	51.0
73°	300.6	134.9	25.9	23.1	25.2	27.9	29.3	28.7	34.9	44.7	51.0
75°	128.6	65.0	19.6	18.9	21.0	24.5	25.9	25.9	34.9	45.5	48.9
77.5°	58.0	34.9	12.6	14.7	18.2	19.6	21.7	21.7	27.9	34.9	34.9
80°	32.9	18.9	9.8	11.2	13.3	13.3	13.3	11.9	12.6	14.0	15.4
82.5°	21.0	12.6	7.7	9.1	8.4	7.0	5.6	5.6	4.9	5.6	7.0
85°	11.9	7.0	7.0	5.6	3.5	2.8	3.5	2.8	0.7	0.0	0.7
87.5°	7.0	4.2	2.1	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)