

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: P452593

Luminaire Tested: **GALN-SA3C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 15113 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

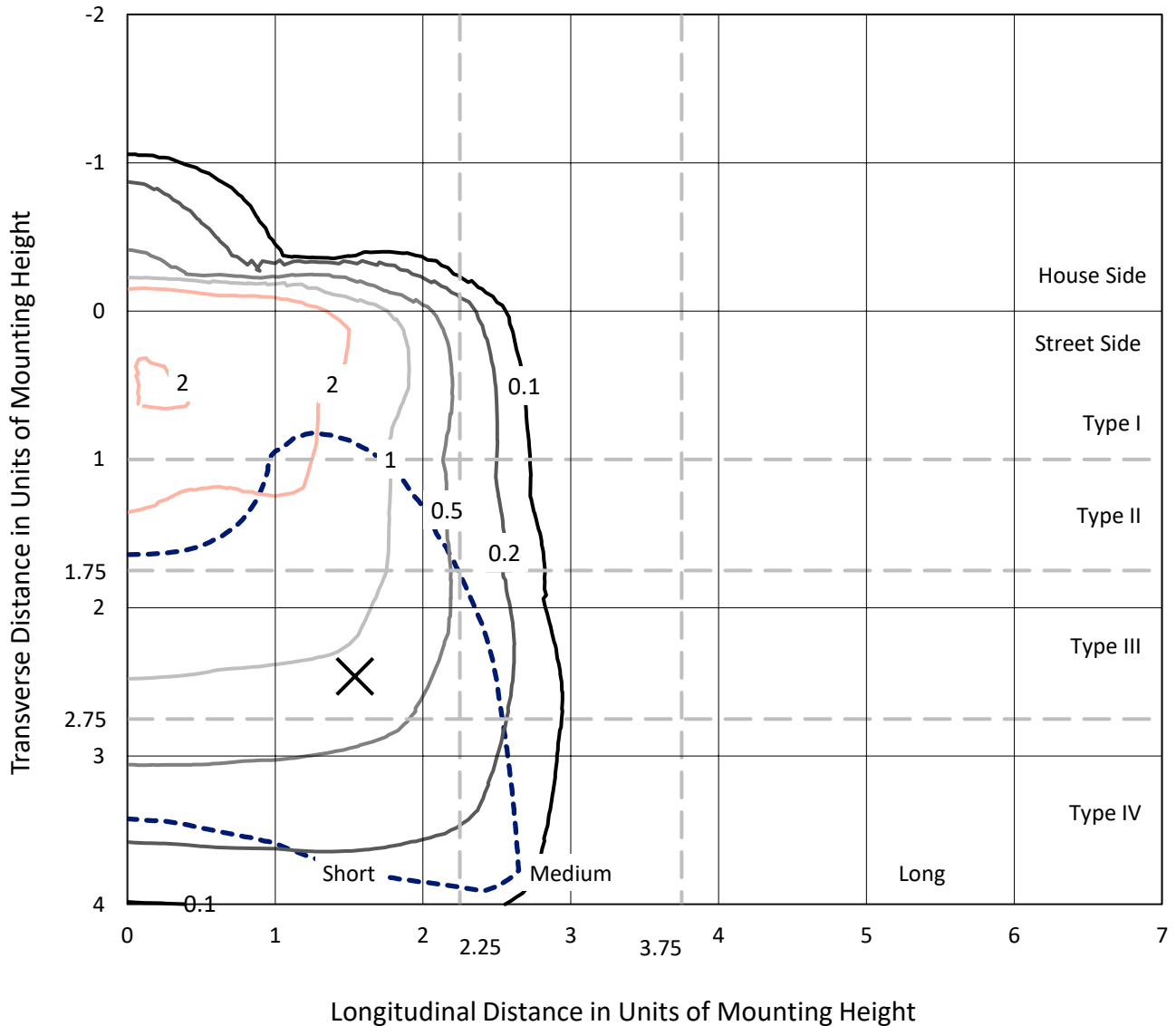
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

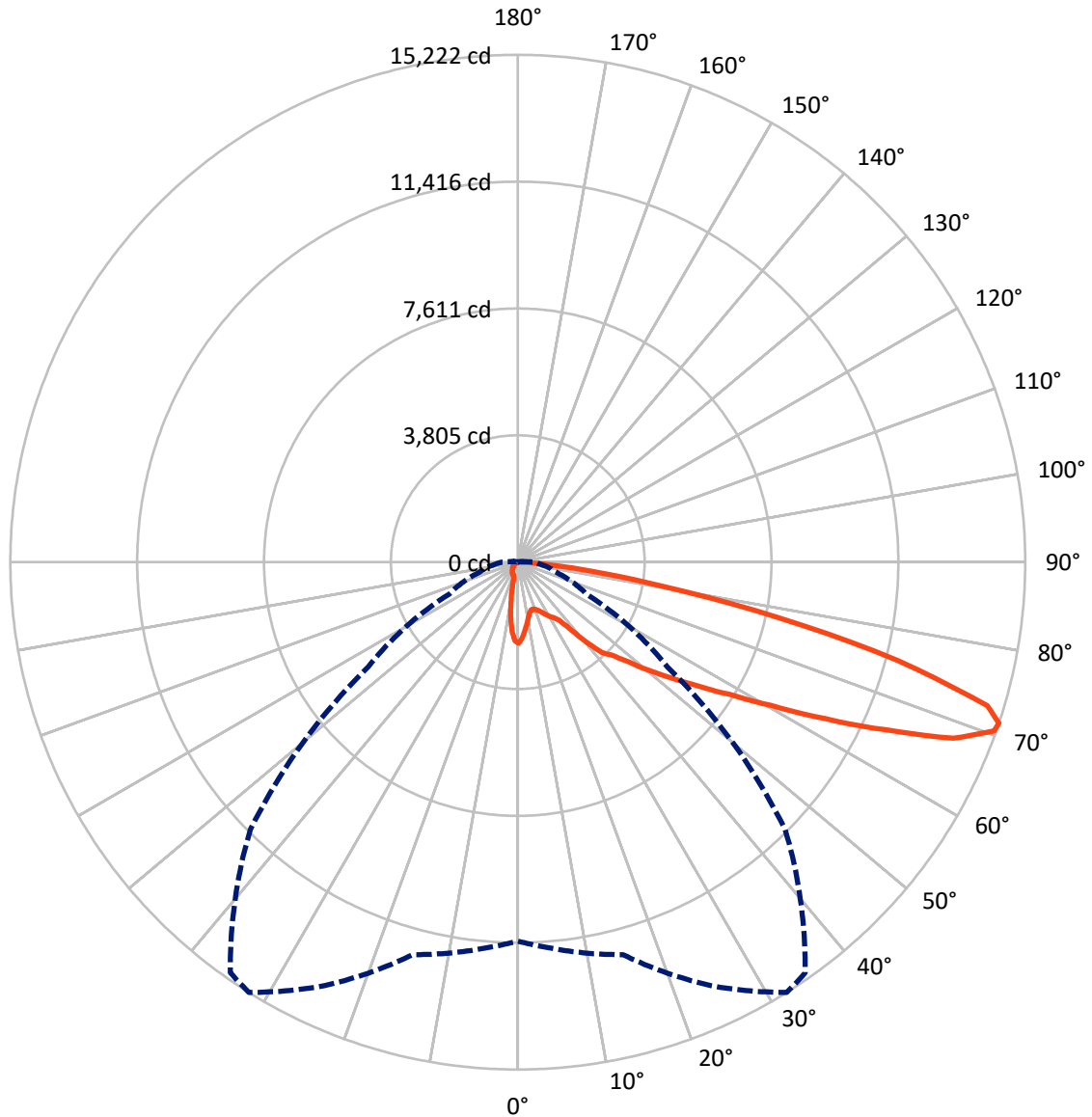
× Max cd
 - - - 1/2 Max cd



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 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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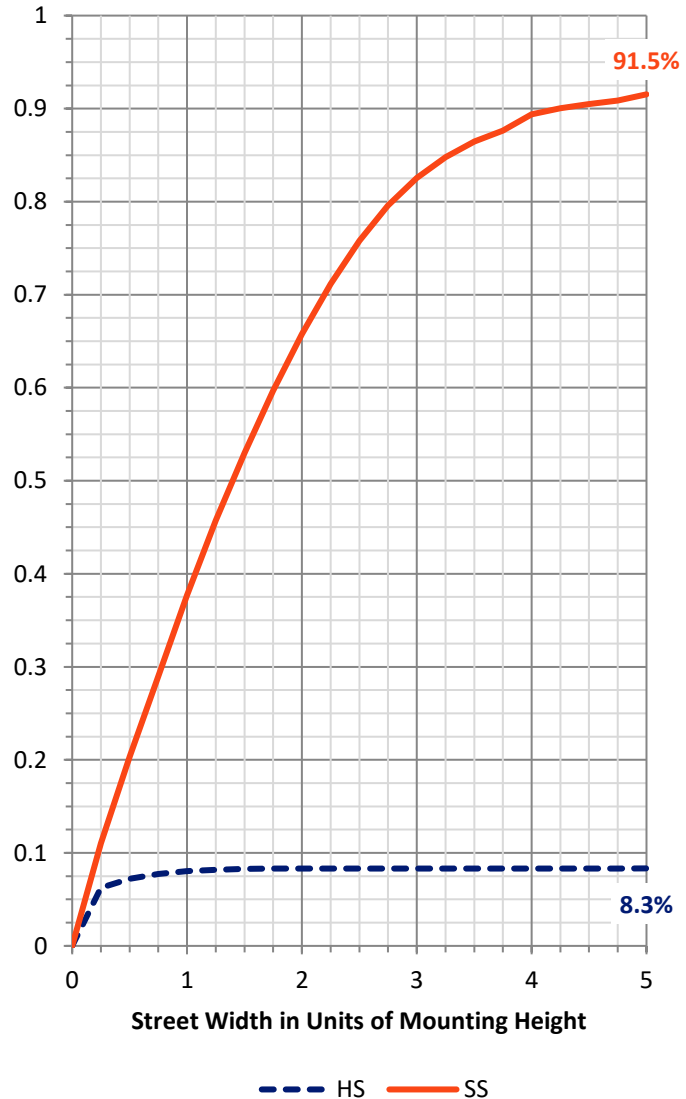
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.9	0.0	1265.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13847.1	0.0	13847.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	15113.0	0.0	15113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	1.3
10°-20°	428.9	2.8
20°-30°	667.2	4.4
30°-40°	1111.6	7.4
40°-50°	2067.8	13.7
50°-60°	3320.0	22.0
60°-70°	4465.5	29.5
70°-80°	2649.5	17.5
80°-90°	204.8	1.4
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°	15113.0	100.0
0°-180°	15113.0	100.0



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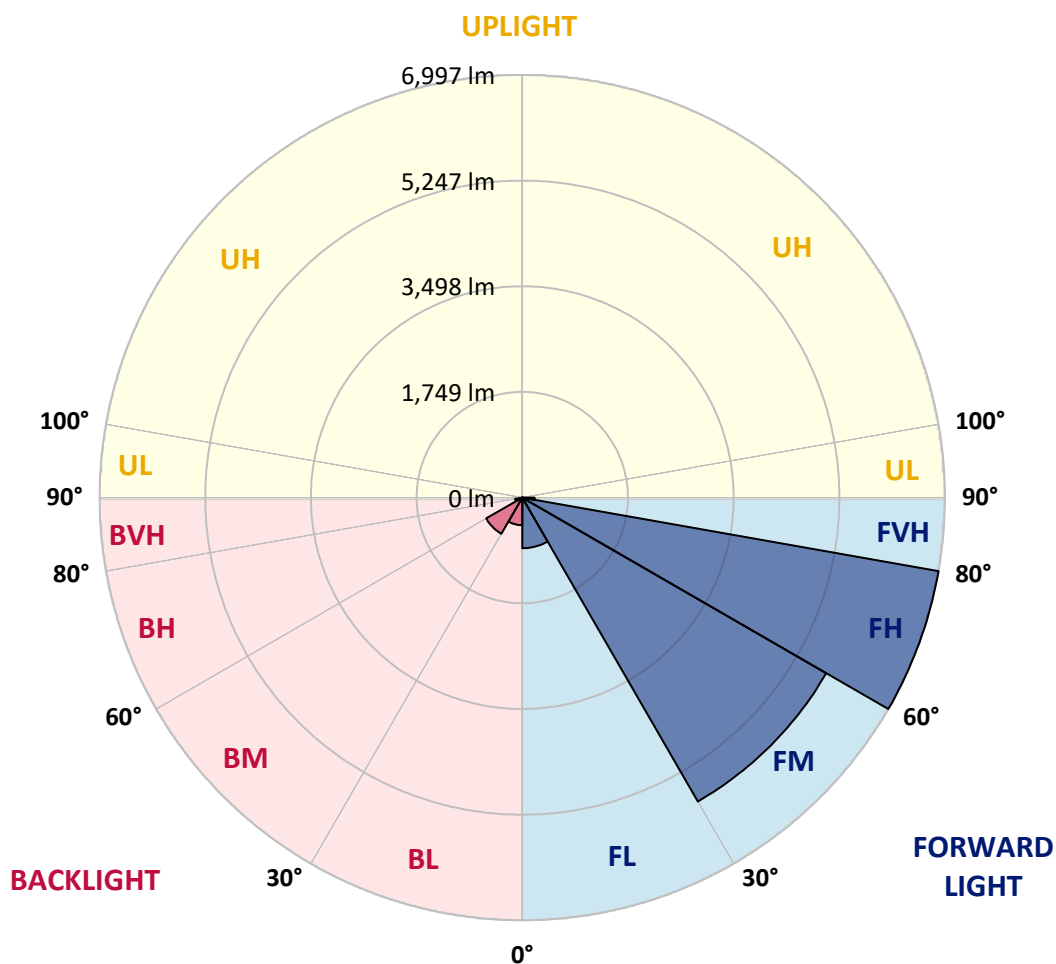
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	837.7	5.5			
FM	(30°-60°)	5808.9	38.4			
FH	(60°-80°)	6996.6	46.3			G3/7500
FVH	(80°-90°)	204.0	1.3			G2/225
BL	(0°-30°)	456.1	3.0	B1/500		
BM	(30°-60°)	690.6	4.6	B1/1000		
BH	(60°-80°)	118.4	0.8	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	32°	35°	45°	55°	65°	75°	85°
0°	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2254.1	2277.3	2273.8	2281.9	2301.6	2309.8	2331.8	2356.2	2389.8	2413.0	2428.1
5°	2018.6	2036.0	2038.3	2078.9	2098.6	2120.7	2185.6	2256.4	2335.3	2397.9	2439.7
7.5°	1766.8	1776.1	1794.7	1848.0	1897.9	1920.0	2018.6	2141.5	2265.7	2382.8	2458.2
10°	1559.2	1569.6	1603.3	1660.1	1706.5	1735.5	1872.4	2026.7	2200.7	2374.7	2484.9
12.5°	1440.8	1446.6	1459.4	1510.4	1569.6	1600.9	1748.3	1924.6	2148.5	2378.2	2530.2
15°	1432.7	1430.4	1415.3	1436.2	1489.6	1522.0	1665.9	1855.0	2102.1	2389.8	2583.5
17.5°	1475.6	1469.8	1433.9	1433.9	1478.0	1504.6	1631.1	1817.9	2078.9	2416.5	2658.9
20°	1541.8	1532.5	1473.3	1468.7	1511.6	1539.5	1652.0	1820.2	2083.5	2466.4	2759.9
22.5°	1625.3	1614.9	1525.5	1527.8	1574.3	1602.1	1712.3	1862.0	2112.5	2527.9	2867.8
25°	1734.3	1722.7	1617.2	1612.5	1661.3	1685.6	1801.6	1936.2	2153.1	2604.4	3009.3
27.5°	1879.4	1855.0	1728.5	1721.6	1773.8	1805.1	1909.5	2036.0	2225.1	2710.0	3199.6
30°	1998.8	1972.2	1851.5	1833.0	1888.6	1913.0	2020.9	2170.5	2366.6	2894.4	3462.9
32.5°	2155.5	2116.0	1974.5	1925.8	1984.9	2016.3	2182.1	2421.1	2576.6	3089.3	3776.1
35°	2508.1	2483.8	2310.9	2140.4	2136.9	2176.3	2420.0	2674.0	2792.4	3393.3	4203.0
37.5°	3012.8	2995.4	2812.1	2583.5	2517.4	2498.9	2708.8	2952.5	3136.9	3810.9	4699.6
40°	3598.6	3558.0	3389.8	3196.1	3110.2	3055.7	3049.9	3366.6	3587.0	4378.2	5217.0
42.5°	4018.6	3944.3	3740.2	3726.2	3707.7	3650.8	3486.1	3972.2	4168.2	4988.4	5770.3
45°	4459.4	4346.9	4042.9	3990.7	3983.8	3980.3	4145.0	4689.1	4801.6	5649.7	6338.8
47.5°	4801.6	4712.3	4462.9	4439.7	4468.7	4547.6	5016.3	5450.1	5426.9	6239.0	6815.6
50°	5257.6	5190.3	4913.0	4957.1	5106.8	5235.5	5998.9	6279.6	5940.9	6703.0	7162.4
52.5°	5795.9	5671.7	5414.2	5533.7	5763.4	5978.0	7041.8	7005.8	6301.7	7052.2	7421.2
55°	6262.2	6174.0	6085.9	6210.0	6553.4	6821.4	7983.8	7549.9	6563.8	7333.0	7534.8
57.5°	7051.1	7030.2	6939.7	7066.2	7482.6	7761.1	8827.2	7972.2	6732.1	7479.2	7401.4
60°	8218.1	8184.5	8016.3	8177.5	8720.5	9157.8	9604.5	8351.5	6770.3	7422.3	7017.4
62.5°	9621.9	9507.0	9363.2	9601.0	10345.8	10538.3	10336.5	8576.6	6627.6	6969.9	6091.7
65°	10932.8	10814.4	10817.9	11319.1	12130.0	12261.1	11190.3	8543.0	6210.0	5836.5	4493.1
67.5°	11936.3	11916.5	12058.1	13036.0	14096.4	14005.9	11953.7	8039.5	4972.2	3783.1	2387.5
70°	11987.3	12025.6	12431.6	14082.4	15159.0	15015.2	11888.7	6534.8	3099.8	1740.1	940.8
71°	11370.1	11627.7	12189.2	14050.0	15221.7	15034.9	11341.1	5473.3	2273.8	1213.5	678.7
72.5°	9689.1	9824.9	11038.3	13222.8	14726.3	14327.2	9952.5	3836.4	1455.9	742.5	389.8
75°	5336.5	5670.6	7392.1	10373.6	11778.5	11428.1	6486.1	1822.5	726.2	406.0	161.3
77.5°	2540.6	2475.7	3606.7	6169.4	7986.1	7967.6	3268.0	809.7	423.4	274.9	81.2
80°	726.2	816.7	1380.5	2932.7	4433.9	4482.6	1255.2	391.0	293.5	214.6	41.8
82.5°	219.3	223.9	507.0	1297.0	2205.3	2078.9	471.0	199.5	211.1	170.5	24.4
85°	38.3	47.6	149.7	457.1	841.1	638.1	118.3	95.1	139.2	112.5	13.9
87.5°	2.3	3.5	49.9	52.2	74.2	42.9	20.9	13.9	30.2	30.2	8.1
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°	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2438.5	2445.5	2440.8	2430.4	2413.0	2392.1	2364.3	2341.1	2321.4	2310.9	2323.7
5°	2453.6	2462.9	2439.7	2387.5	2308.6	2222.7	2125.3	2049.9	1990.7	1972.2	1965.2
7.5°	2476.8	2482.6	2420.0	2304.0	2136.9	1933.9	1756.4	1606.7	1490.7	1455.9	1404.9
10°	2507.0	2503.5	2385.2	2169.4	1875.9	1570.8	1295.8	1091.7	937.4	881.7	877.0
12.5°	2553.4	2534.8	2341.1	1986.1	1565.0	1165.9	826.0	646.2	548.7	516.2	509.3
15°	2611.4	2567.3	2271.5	1771.5	1198.4	752.9	509.3	454.8	442.0	439.7	437.4
17.5°	2679.8	2610.2	2179.8	1508.1	842.2	488.4	425.8	424.6	425.8	423.4	422.3
20°	2772.6	2655.5	2070.8	1196.1	556.8	411.8	406.0	406.0	407.2	406.0	406.0
22.5°	2871.2	2708.8	1936.2	913.0	420.0	391.0	389.8	392.1	394.4	393.3	393.3
25°	2993.1	2778.4	1758.7	625.3	375.9	373.6	374.7	379.4	384.0	385.2	384.0
27.5°	3169.4	2864.3	1568.5	430.4	344.5	346.9	358.5	370.1	377.0	378.2	378.2
30°	3367.8	2959.4	1320.2	349.2	319.0	319.0	332.9	355.0	370.1	372.4	373.6
32.5°	3623.0	3069.6	1045.2	314.4	294.7	292.3	305.1	331.8	359.6	367.8	367.8
35°	3938.5	3199.6	777.3	292.3	277.3	271.5	278.4	300.5	336.4	359.6	362.0
37.5°	4308.6	3322.5	568.4	272.6	261.0	252.9	257.5	274.9	303.9	338.7	348.0
40°	4650.8	3431.6	424.6	256.4	244.8	239.0	242.5	250.6	274.9	307.4	313.2
42.5°	5024.4	3516.3	337.6	239.0	228.5	226.2	226.2	229.7	245.9	264.5	265.7
45°	5396.8	3546.4	283.1	218.1	211.1	213.5	212.3	210.0	216.9	214.6	214.6
47.5°	5662.4	3510.5	234.3	198.4	198.4	201.9	196.1	187.9	184.5	170.5	171.7
50°	5844.6	3379.4	192.6	175.2	184.5	189.1	177.5	164.7	152.0	136.9	133.4
52.5°	5920.0	3146.2	157.8	145.0	163.6	169.4	155.5	140.4	120.7	107.9	104.4
55°	5871.3	2858.5	131.1	118.3	138.1	145.0	131.1	113.7	91.6	77.7	75.4
57.5°	5656.6	2515.1	111.4	94.0	110.2	114.8	105.6	87.0	65.0	51.0	51.0
60°	5285.4	2160.1	90.5	74.2	82.4	89.3	80.0	62.6	44.1	31.3	29.0
62.5°	4532.5	1754.1	73.1	58.0	58.0	63.8	55.7	45.2	27.8	16.2	15.1
65°	3272.6	1203.0	58.0	42.9	41.8	41.8	34.8	30.2	16.2	7.0	4.6
67.5°	1778.4	678.7	46.4	32.5	29.0	27.8	22.0	17.4	7.0	1.2	0.0
70°	699.5	261.0	36.0	22.0	18.6	17.4	11.6	8.1	4.6	0.0	0.0
71°	474.5	179.8	31.3	18.6	15.1	12.8	9.3	7.0	3.5	0.0	0.0
72.5°	271.5	111.4	24.4	13.9	11.6	9.3	7.0	4.6	3.5	0.0	0.0
75°	118.3	56.8	15.1	10.4	8.1	5.8	4.6	3.5	1.2	0.0	0.0
77.5°	60.3	31.3	10.4	8.1	4.6	3.5	2.3	1.2	0.0	0.0	0.0
80°	33.6	16.2	7.0	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0
82.5°	18.6	9.3	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.6	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	0.0	0.0	0.0	0.0	1.2	1.2	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)