

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: P529404

Luminaire Tested: **GALN-SA4C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23529 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

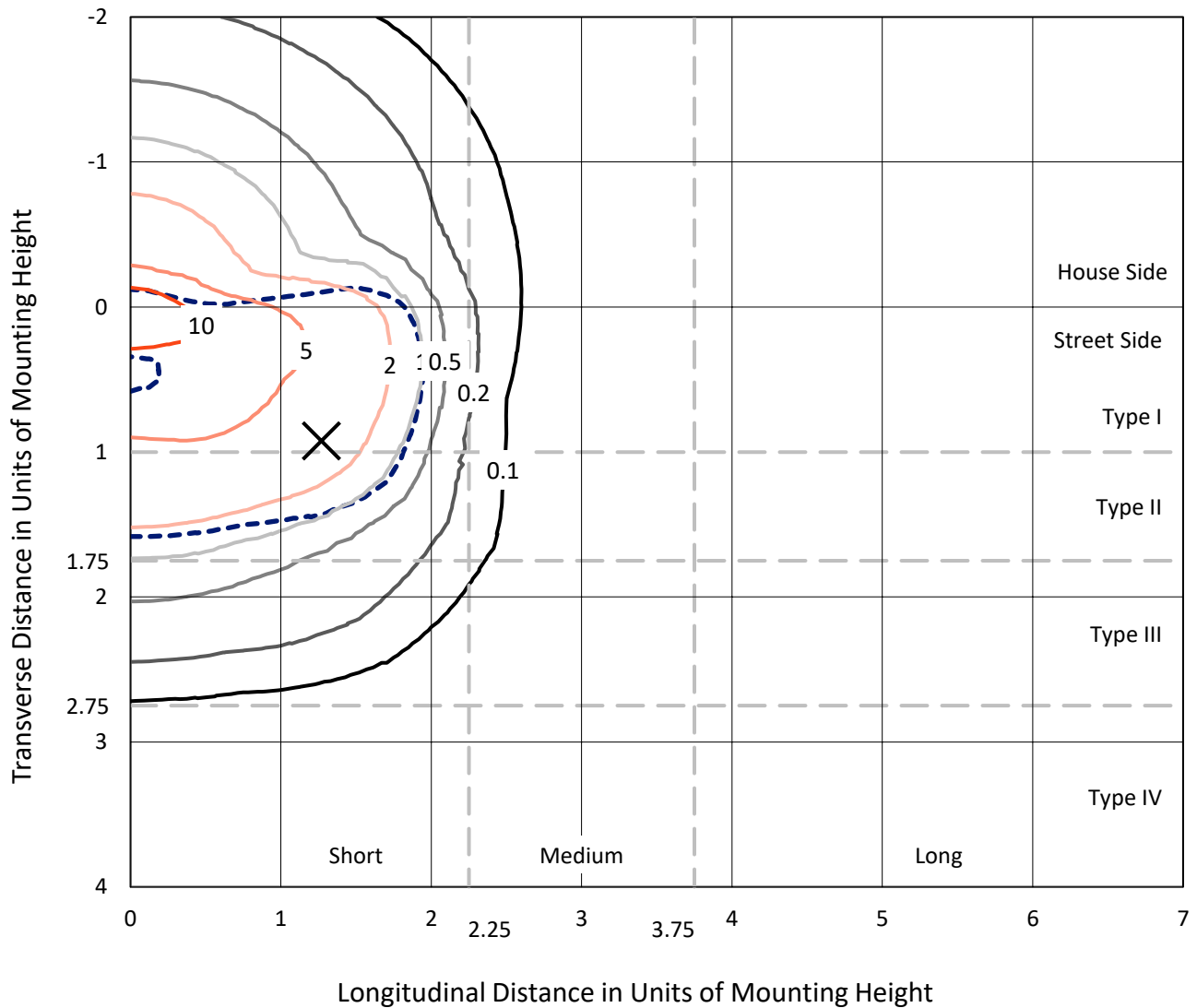
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

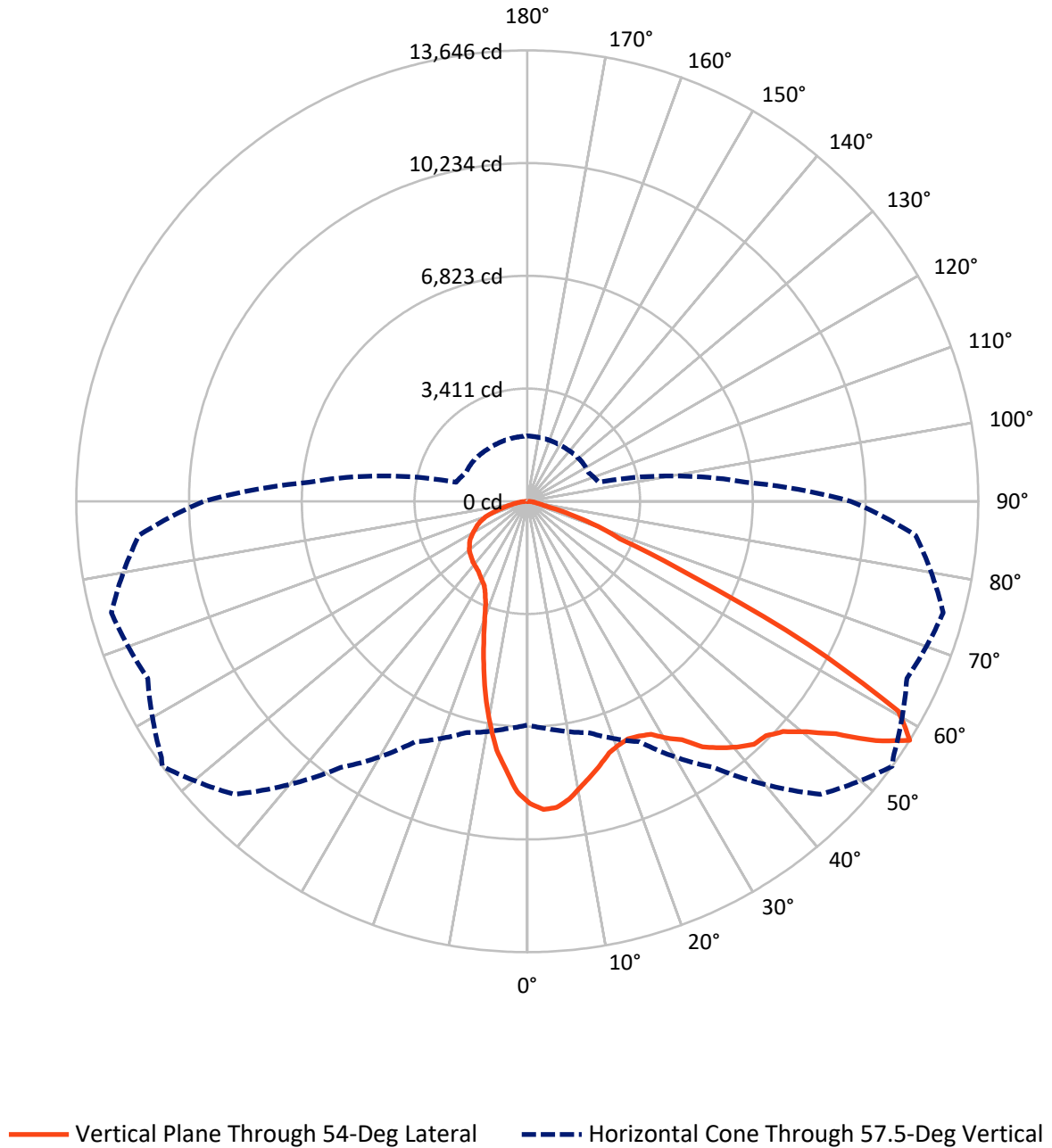
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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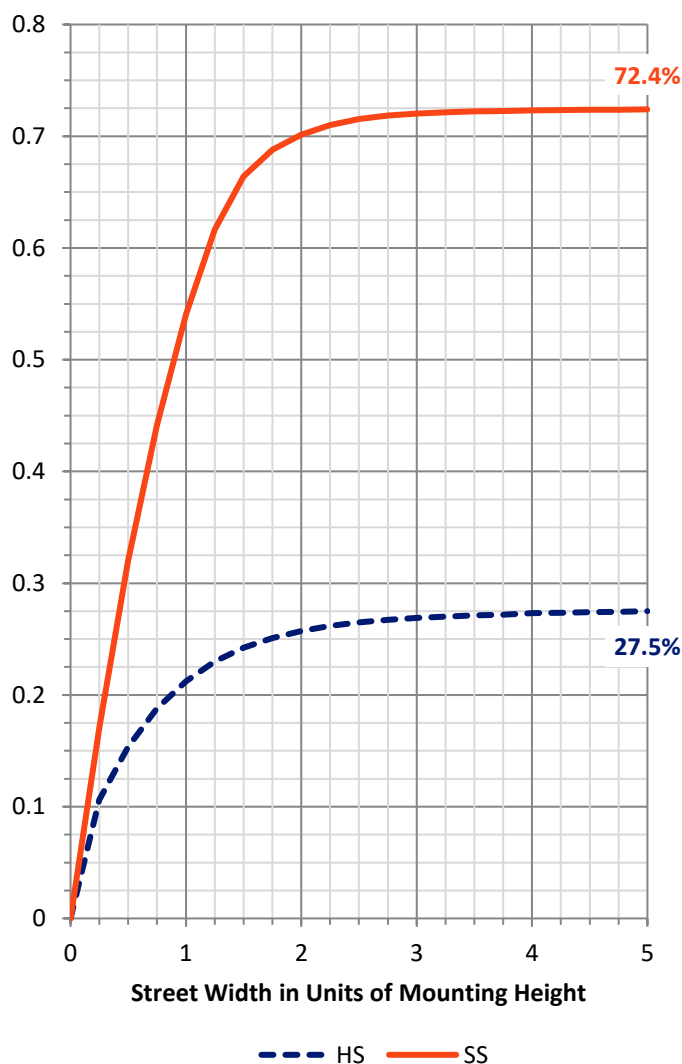
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6509.4	0.0	6509.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17019.6	0.0	17019.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	23529.0	0.0	23529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.7	3.4
10°-20°	1826.1	7.8
20°-30°	2565.8	10.9
30°-40°	3586.9	15.2
40°-50°	4856.0	20.6
50°-60°	5914.9	25.1
60°-70°	3080.7	13.1
70°-80°	789.4	3.4
80°-90°	120.4	0.5
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°	23529.0	100.0
0°-180°	23529.0	100.0

Coefficient of Utilization



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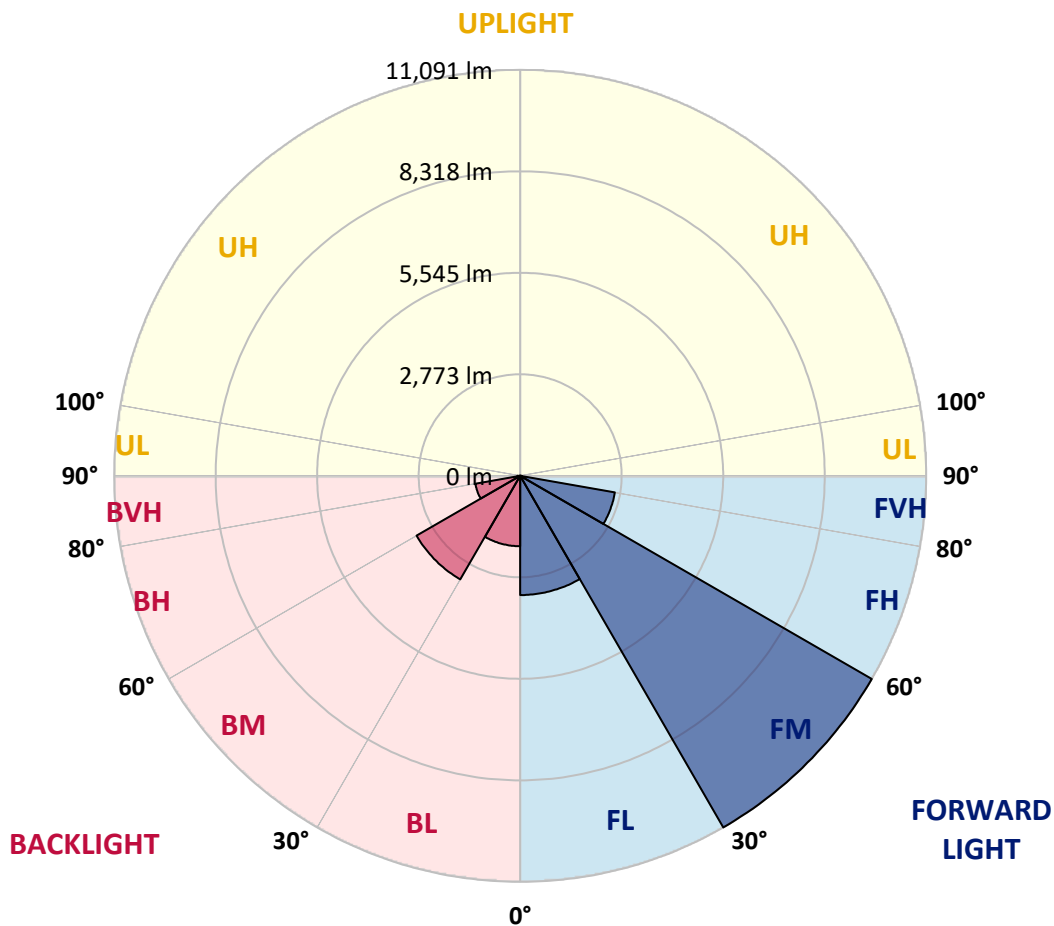
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3256.7	13.8			
FM (30°-60°)	11090.8	47.1			
FH (60°-80°)	2626.5	11.2			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	1923.9	8.2	B3/2500		
BM (30°-60°)	3267.0	13.9	B3/5000		
BH (60°-80°)	1243.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	74.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5
2.5°	9405.5	9369.3	9375.3	9423.7	9363.2	9339.0	9339.0	9221.1	9230.1	9148.5	9127.3
5°	9187.8	9103.1	9160.6	9233.2	9245.3	9269.4	9308.8	9278.5	9193.8	9106.1	8964.0
7.5°	8619.2	8694.8	8716.0	8767.4	8876.3	8976.1	9100.1	9015.4	9012.4	8924.7	8840.0
10°	8120.2	8074.9	8189.8	8265.4	8446.8	8613.2	8803.7	8794.6	8840.0	8740.2	8595.0
12.5°	7624.2	7587.9	7642.4	7814.8	8068.8	8310.7	8537.6	8452.9	8694.8	8676.7	8365.2
15°	7098.0	7125.2	7203.9	7364.1	7696.8	7987.1	8274.5	8277.5	8492.2	8564.8	8147.4
17.5°	6729.0	6698.8	6798.6	7037.5	7333.9	7681.7	8008.3	8074.9	8404.5	8446.8	8080.9
20°	6453.8	6496.2	6626.2	6747.2	7088.9	7509.3	7878.3	7902.5	8386.4	8501.3	7975.1
22.5°	6387.3	6363.1	6405.4	6602.0	6883.3	7340.0	7808.7	7899.4	8383.3	8483.1	7775.4
25°	6317.7	6396.4	6393.3	6589.9	6795.6	7203.9	7866.2	7966.0	8543.6	8576.9	7802.7
27.5°	6475.0	6465.9	6550.6	6565.7	6819.8	7240.2	7987.1	8062.8	8809.8	8782.5	7823.8
30°	6632.3	6586.9	6638.3	6816.7	6934.7	7448.8	8319.8	8313.8	9154.5	9136.4	7890.4
32.5°	6825.8	6804.7	6837.9	6995.2	7194.8	7727.1	8601.1	8779.5	9505.3	9620.3	8120.2
35°	6862.1	6949.8	7028.4	7240.2	7524.4	8177.7	9130.3	9278.5	9910.6	10270.5	8558.7
37.5°	7092.0	7125.2	7309.7	7684.7	7944.8	8779.5	9466.0	9559.8	10279.6	10687.8	9021.5
40°	7336.9	7376.2	7654.5	8047.6	8404.5	9172.7	9780.6	9810.8	10397.5	11008.4	9323.9
42.5°	7669.6	7705.9	7981.1	8474.1	8951.9	9508.4	10058.8	10092.1	10388.4	11377.4	9804.7
45°	8014.4	8102.1	8425.7	8985.2	9414.6	9901.5	10122.3	10258.4	10473.1	11707.0	10194.9
47.5°	8498.3	8579.9	8846.0	9393.4	9895.5	10246.3	10415.7	10548.7	10675.7	11994.3	10445.9
50°	9012.4	9027.5	9351.1	9847.1	10216.1	10636.4	10963.1	11008.4	10941.9	12327.0	10872.3
52.5°	9390.4	9438.8	9689.8	10173.7	10724.1	11241.3	11688.9	11737.3	11607.2	12451.0	11017.5
55°	8764.4	8737.2	9145.5	9789.6	11065.9	12142.5	12792.7	12829.0	12091.1	12835.1	11492.3
57.5°	6774.4	6904.5	7252.2	8029.5	9832.0	12541.7	13645.6	13515.6	12671.8	13028.6	11794.7
60°	4923.5	4893.3	5126.2	5646.3	7409.5	10808.8	12901.6	13034.7	12197.0	11743.3	9726.1
62.5°	4010.2	3967.9	3986.0	4004.2	4781.4	7173.6	9550.7	9547.7	9393.4	8440.8	6559.7
65°	3205.7	3305.5	3314.6	3450.7	3550.5	4285.4	5534.5	5830.8	5077.8	4164.4	3021.3
67.5°	2416.4	2380.1	2501.1	2985.0	3172.5	3093.8	3021.3	3054.5	2171.4	1566.6	1475.9
70°	1424.4	1409.3	1554.5	2080.7	2613.0	2458.7	2277.3	2280.3	1491.0	1094.8	1218.8
72.5°	780.3	777.2	807.5	1055.5	1484.9	1542.4	1367.0	1409.3	889.1	886.1	952.7
75°	435.5	426.4	417.4	465.7	535.3	565.5	577.6	583.7	610.9	683.5	710.7
77.5°	160.3	154.2	154.2	178.4	226.8	284.3	359.9	365.9	432.5	496.0	523.2
80°	54.4	60.5	81.7	111.9	151.2	202.6	245.0	251.0	305.5	347.8	356.9
82.5°	33.3	36.3	54.4	78.6	108.9	142.1	181.5	184.5	226.8	254.0	266.1
85°	15.1	18.1	30.2	48.4	69.6	93.8	96.8	96.8	93.8	96.8	90.7
87.5°	0.0	0.0	6.0	6.0	6.0	9.1	12.1	9.1	15.1	18.1	18.1
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°	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5	9145.5
2.5°	9063.8	9030.5	8927.7	8837.0	8809.8	8688.8	8510.4	8531.5	8401.5	8462.0	8398.5
5°	8939.8	8827.9	8564.8	8452.9	8159.5	8026.5	7935.7	7708.9	7603.1	7581.9	7491.2
7.5°	8622.3	8552.7	8223.0	7920.6	7609.1	7343.0	7001.2	6768.4	6602.0	6556.7	6423.6
10°	8371.2	8217.0	7760.3	7300.6	6856.1	6393.3	5948.8	5601.0	5431.6	5235.0	5168.5
12.5°	8123.2	7890.4	7273.4	6683.7	6109.1	5525.4	4987.1	4563.7	4194.7	4107.0	4076.7
15°	7969.0	7563.7	6837.9	6127.2	5310.7	4548.5	4010.2	3732.0	3505.2	3411.4	3477.9
17.5°	7766.4	7294.6	6420.6	5474.0	4575.8	3874.1	3423.5	3251.1	3169.5	3178.5	3151.3
20°	7512.3	7040.5	5873.2	4881.2	3919.5	3360.0	3102.9	3039.4	3051.5	3072.7	3063.6
22.5°	7330.9	6732.1	5477.0	4276.3	3387.2	3075.7	2969.9	2924.5	2963.8	2981.9	2966.8
25°	7191.8	6469.0	4996.1	3741.0	3078.7	2915.4	2867.0	2864.0	2924.5	2948.7	2933.6
27.5°	7064.7	6224.0	4518.3	3332.8	2873.1	2791.4	2776.3	2812.6	2851.9	2876.1	2897.3
30°	6989.1	6036.5	4070.7	2991.0	2770.2	2730.9	2703.7	2737.0	2758.2	2782.3	2770.2
32.5°	7061.7	5903.4	3638.2	2797.5	2685.6	2646.3	2682.5	2661.4	2697.7	2718.8	2685.6
35°	7288.5	5785.5	3329.7	2694.6	2588.8	2603.9	2610.0	2600.9	2616.0	2597.9	2637.2
37.5°	7512.3	5743.1	3045.5	2606.9	2543.4	2543.4	2537.4	2519.2	2549.5	2543.4	2561.6
40°	7796.6	5770.3	2803.5	2513.2	2501.1	2495.0	2470.8	2467.8	2455.7	2458.7	2464.8
42.5°	8044.6	5830.8	2664.4	2452.7	2461.8	2473.9	2428.5	2392.2	2407.3	2377.1	2377.1
45°	8307.7	5885.3	2540.4	2410.4	2401.3	2398.3	2362.0	2340.8	2328.7	2331.7	2358.9
47.5°	8722.1	5963.9	2446.7	2352.9	2358.9	2313.6	2304.5	2277.3	2289.4	2307.5	2310.6
50°	9015.4	6130.2	2374.1	2286.4	2307.5	2277.3	2222.9	2210.8	2210.8	2241.0	2235.0
52.5°	9221.1	6363.1	2304.5	2213.8	2222.9	2198.7	2180.5	2153.3	2135.1	2177.5	2198.7
55°	9850.1	6750.2	2286.4	2153.3	2150.3	2126.1	2092.8	2065.6	2056.5	2062.6	2104.9
57.5°	9789.6	6629.2	2228.9	2047.4	2041.4	2008.1	1974.9	1965.8	1962.8	1968.8	1980.9
60°	7947.8	4896.3	1990.0	1926.5	1917.4	1911.4	1878.1	1841.8	1823.6	1841.8	1826.7
62.5°	5259.2	3278.3	1754.1	1781.3	1787.4	1772.2	1717.8	1681.5	1687.6	1708.7	1675.5
65°	2582.7	1926.5	1590.8	1663.4	1669.4	1627.1	1575.7	1533.3	1512.1	1530.3	1515.2
67.5°	1475.9	1472.8	1457.7	1533.3	1530.3	1488.0	1406.3	1370.0	1333.7	1339.8	1330.7
70°	1252.1	1276.3	1306.5	1351.9	1348.8	1300.4	1203.7	1176.4	1125.0	1119.0	1103.9
72.5°	985.9	1028.3	1094.8	1128.1	1100.8	1040.4	976.8	931.5	886.1	858.9	868.0
75°	731.9	792.4	828.7	849.8	807.5	774.2	722.8	668.4	613.9	589.7	580.7
77.5°	532.3	550.4	583.7	598.8	571.6	538.3	508.1	453.6	402.2	369.0	359.9
80°	372.0	384.1	408.3	408.3	408.3	393.2	353.8	299.4	266.1	235.9	229.8
82.5°	260.1	272.2	296.4	284.3	281.3	263.1	238.9	196.6	160.3	139.1	133.1
85°	90.7	99.8	121.0	145.2	154.2	151.2	136.1	108.9	84.7	69.6	63.5
87.5°	21.2	21.2	24.2	21.2	21.2	24.2	21.2	21.2	21.2	15.1	12.1
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)