

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: P949878

Luminaire Tested: **GALN-SB4C-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29334 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 200.7
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



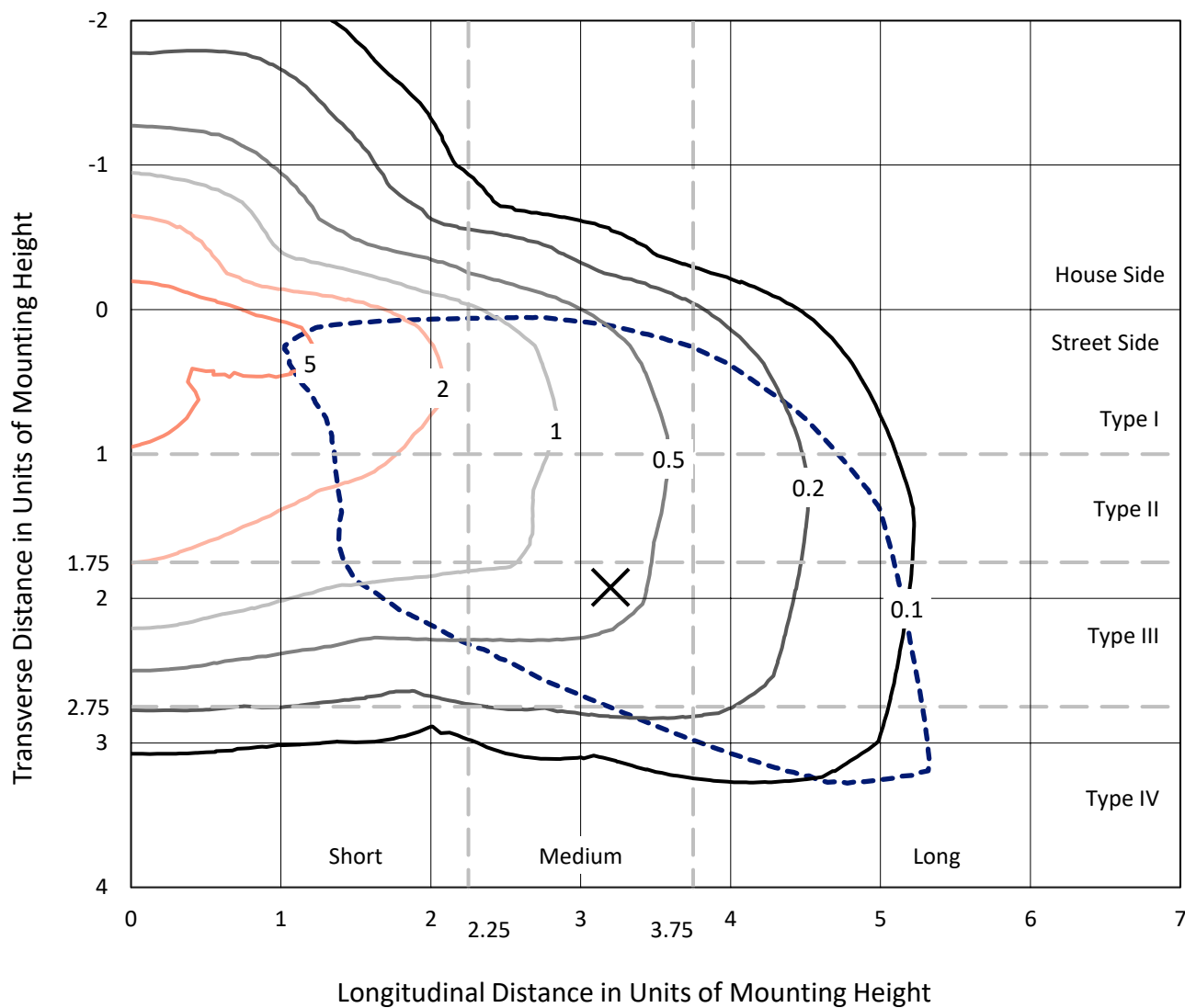
REPORT NUMBER: P949878

CATALOG NUMBER: GALN-SB4C-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

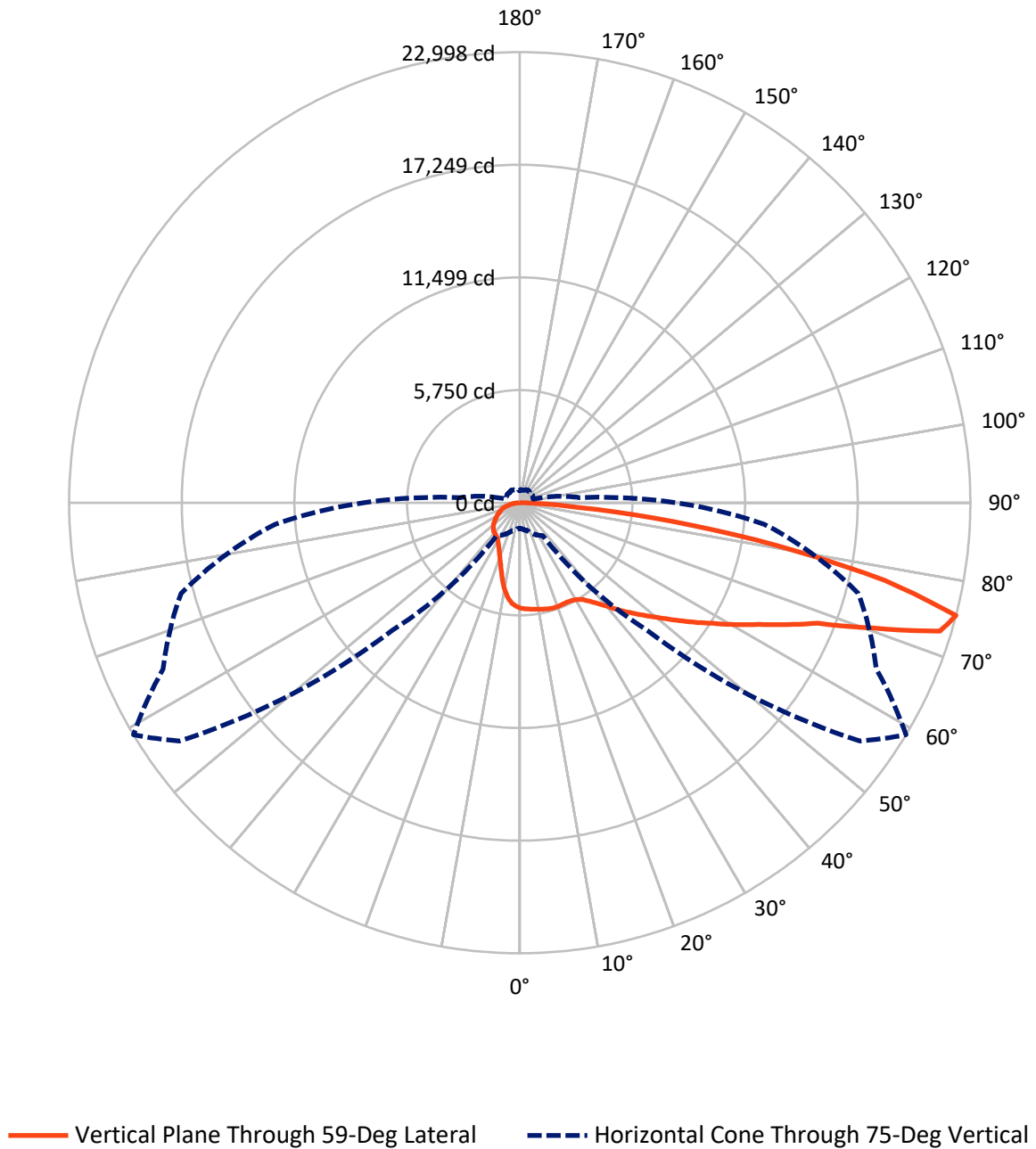
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P949878
CATALOG NUMBER: GALN-SB4C-730-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P949878

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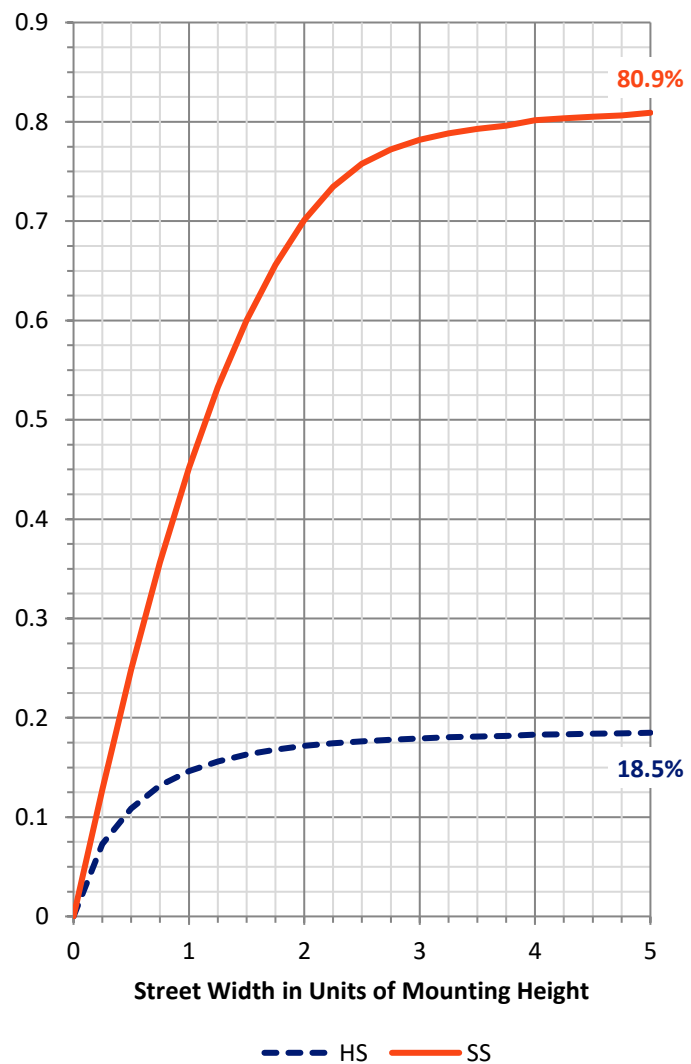
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5501.8	0.0	5501.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23832.2	0.0	23832.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	29334.0	0.0	29334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	1.6
10°-20°	1234.0	4.2
20°-30°	1874.4	6.4
30°-40°	2786.2	9.5
40°-50°	4143.6	14.1
50°-60°	5624.4	19.2
60°-70°	6866.5	23.4
70°-80°	5388.7	18.4
80°-90°	933.5	3.2
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°	29334.0	100.0
0°-180°	29334.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949878

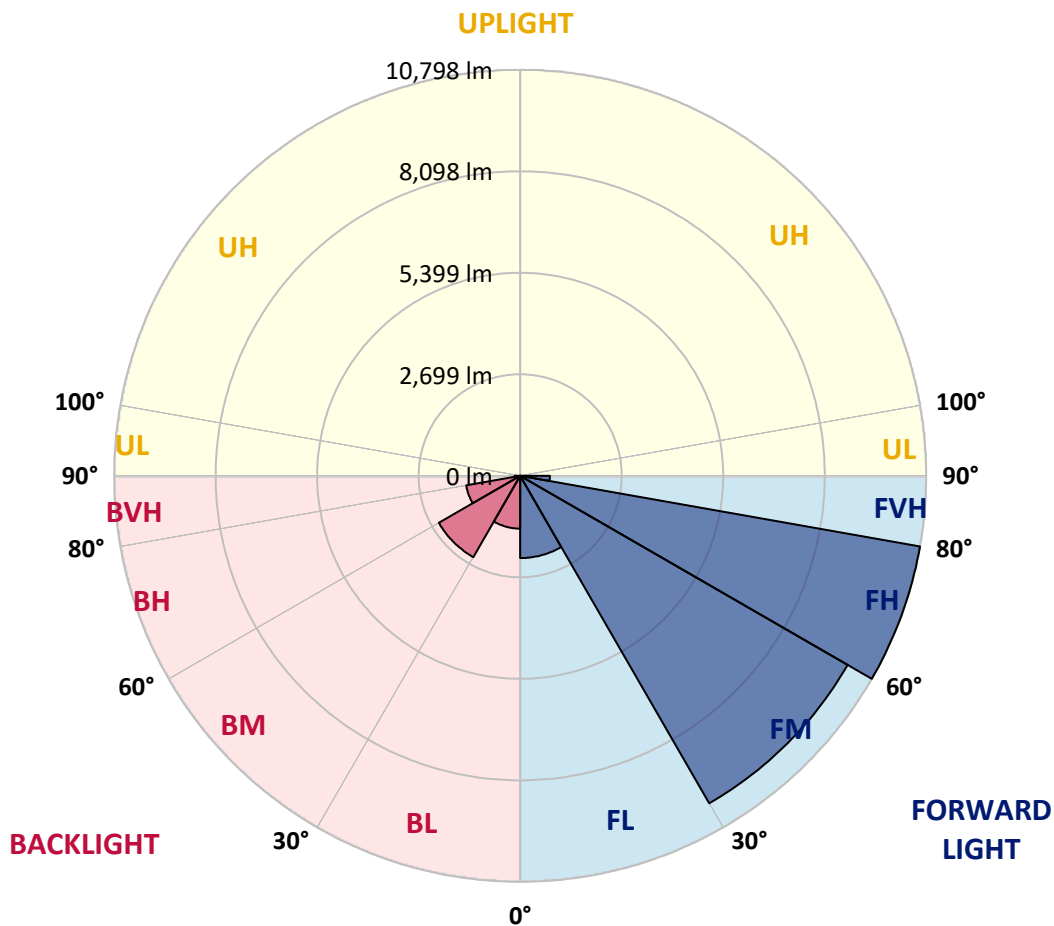
CATALOG NUMBER: GALN-SB4C-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2187.2	7.5			
FM	(30°-60°)	10056.9	34.3			
FH	(60°-80°)	10797.6	36.8			G4/12000
FVH	(80°-90°)	790.6	2.7			G5
BL	(0°-30°)	1404.0	4.8	B3/2500		
BM	(30°-60°)	2497.3	8.5	B2/2500		
BH	(60°-80°)	1457.6	5.0	B3/2500		G3/2500
BVH	(80°-90°)	142.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



REPORT NUMBER: P949878

CATALOG NUMBER: GALN-SB4C-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2
2.5°	5430.0	5411.0	5430.0	5422.1	5418.9	5412.6	5414.2	5425.2	5418.9	5426.8	5400.0
5°	5393.7	5382.6	5401.5	5396.8	5417.3	5420.5	5441.0	5453.6	5461.5	5463.1	5442.6
7.5°	5333.7	5322.6	5349.5	5371.6	5415.8	5428.4	5471.0	5491.5	5502.5	5521.5	5491.5
10°	5114.3	5109.6	5175.9	5259.5	5363.7	5428.4	5493.1	5527.8	5545.1	5595.6	5560.9
12.5°	4726.2	4732.5	4819.3	4980.2	5188.5	5396.8	5518.3	5568.8	5595.6	5658.8	5643.0
15°	4355.3	4353.7	4448.4	4620.4	4912.4	5257.9	5530.9	5617.7	5663.5	5756.6	5744.0
17.5°	4140.7	4134.4	4200.7	4331.7	4603.1	5044.9	5499.4	5644.6	5742.4	5859.2	5848.1
20°	4101.3	4088.6	4123.4	4188.1	4380.6	4811.4	5417.3	5644.6	5805.5	5957.0	5950.7
22.5°	4244.9	4224.3	4210.1	4202.3	4287.5	4618.9	5324.2	5625.6	5898.6	6097.5	6086.4
25°	4533.6	4502.1	4429.5	4358.5	4333.2	4532.1	5242.2	5620.9	6037.5	6286.8	6245.8
27.5°	5000.7	4961.3	4814.5	4644.1	4491.0	4576.2	5205.9	5649.3	6190.6	6487.2	6405.2
30°	5579.9	5537.3	5352.6	5090.7	4816.1	4740.4	5251.6	5732.9	6386.2	6753.9	6593.0
32.5°	6099.0	6051.7	5893.9	5627.2	5256.4	5024.4	5396.8	5892.3	6693.9	7124.7	6875.4
35°	6559.8	6504.6	6362.6	6116.4	5796.1	5423.6	5658.8	6174.8	7131.1	7727.5	7258.9
37.5°	7011.1	6946.4	6791.8	6531.4	6307.3	5955.4	6020.1	6537.7	7711.8	8459.7	7767.0
40°	7516.1	7423.0	7235.2	6978.0	6760.2	6578.7	6495.1	6982.7	8301.9	9277.2	8401.4
42.5°	8005.3	7916.9	7692.8	7473.5	7200.5	7148.4	7045.8	7503.5	8947.4	10175.0	9045.2
45°	8532.3	8426.6	8155.2	7877.5	7705.5	7527.1	7579.2	8024.2	9580.1	11090.3	9720.6
47.5°	9026.3	8907.9	8587.6	8278.3	8183.6	7845.9	8068.4	8597.0	10238.2	12018.2	10389.7
50°	9292.9	9176.2	8909.5	8630.2	8556.0	8238.8	8598.6	9226.7	10927.8	12942.9	11031.9
52.5°	9515.4	9389.2	9040.5	8885.8	8863.7	8666.5	9251.9	9946.2	11617.4	13760.3	11652.1
55°	9752.1	9611.7	9166.7	9027.8	9128.8	9146.2	10026.7	10762.1	12346.4	14557.2	12237.5
57.5°	10025.1	9846.8	9288.2	9147.8	9387.6	9708.0	10916.7	11607.9	13062.8	15295.7	12758.3
60°	10282.4	10102.5	9521.7	9338.7	9666.9	10359.7	11937.7	12632.0	13873.9	15953.7	13250.6
62.5°	10332.8	10184.5	9708.0	9706.4	10045.6	11120.3	13146.5	13665.6	14582.4	16603.9	13692.4
65°	9458.6	9365.5	9083.1	9692.2	10588.5	12215.4	14492.5	14988.0	15483.5	17172.0	14080.6
67.5°	7198.9	7211.5	7191.0	8366.6	10149.8	13788.7	16441.3	16403.5	16596.0	17809.5	14527.2
70°	3291.7	3365.9	3848.8	5775.5	8131.5	13970.2	19663.7	19172.9	17992.5	18634.8	14913.8
72.5°	1778.4	1835.2	2032.5	2797.8	4888.7	12420.6	22071.7	22420.5	19849.9	19190.3	14489.3
75°	1305.0	1336.6	1473.9	1778.4	2053.0	9231.4	21208.5	22998.0	20081.8	17894.7	12512.1
77.5°	976.8	991.0	1103.0	1409.2	1051.0	4866.6	16946.3	19046.7	17190.9	14702.4	9242.4
80°	708.5	724.3	807.9	1057.3	736.9	1780.0	11636.3	13369.0	11773.6	9371.8	4606.2
82.5°	489.2	495.5	531.8	719.6	514.4	691.2	6602.4	7839.6	6572.4	3288.6	1243.5
85°	295.1	303.0	318.8	419.8	291.9	328.2	2849.9	2947.7	1964.6	785.9	386.6
87.5°	121.5	129.4	142.0	176.7	115.2	91.5	470.2	590.2	367.7	230.4	119.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949878

CATALOG NUMBER: GALN-SB4C-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2
2.5°	5392.1	5381.0	5351.1	5310.0	5272.2	5224.8	5204.3	5186.9	5171.2	5141.2	5127.0
5°	5425.2	5395.2	5314.8	5210.6	5092.3	4962.9	4836.6	4749.8	4675.7	4620.4	4574.7
7.5°	5475.7	5418.9	5272.2	5059.1	4787.7	4510.0	4259.1	4080.7	3946.6	3897.7	3812.5
10°	5527.8	5459.9	5204.3	4828.7	4360.1	3932.4	3599.5	3416.4	3309.1	3274.4	3220.7
12.5°	5589.3	5489.9	5098.6	4508.4	3881.9	3413.2	3122.9	3015.6	2960.4	2941.4	2946.2
15°	5679.3	5515.2	4939.2	4107.6	3425.9	3034.5	2846.7	2772.6	2744.2	2742.6	2748.9
17.5°	5747.1	5519.9	4691.4	3678.4	3075.6	2805.7	2651.1	2622.7	2641.6	2670.0	2681.0
20°	5822.9	5477.3	4366.4	3287.0	2829.4	2605.3	2540.6	2559.5	2605.3	2646.3	2660.5
22.5°	5876.5	5400.0	3973.4	2982.5	2616.4	2490.1	2487.0	2526.4	2551.7	2572.2	2583.2
25°	5923.9	5269.0	3556.8	2726.8	2441.2	2420.7	2455.4	2442.8	2425.4	2442.8	2453.8
27.5°	5958.6	5062.3	3184.4	2502.7	2318.1	2373.3	2352.8	2324.4	2322.8	2332.3	2348.1
30°	5947.5	4786.1	2878.3	2289.7	2231.3	2285.0	2236.0	2231.3	2226.6	2231.3	2248.7
32.5°	5947.5	4472.1	2643.2	2142.9	2176.1	2155.6	2150.8	2139.8	2120.9	2119.3	2139.8
35°	5980.7	4158.1	2441.2	2064.0	2130.3	2081.4	2084.6	2057.7	2018.3	1999.3	2018.3
37.5°	6048.5	3905.6	2240.8	2026.2	2049.8	2048.3	2035.6	1989.9	1920.4	1860.5	1881.0
40°	6212.6	3831.4	2103.5	2008.8	2012.0	2030.9	1997.8	1909.4	1751.6	1653.8	1666.4
42.5°	6469.9	3956.1	2073.5	1966.2	1986.7	2005.7	1941.0	1735.8	1623.8	1565.4	1565.4
45°	6796.5	4173.9	2138.2	1904.7	1926.8	1959.9	1767.4	1669.5	1619.0	1620.6	1628.5
47.5°	7210.0	4402.7	2258.1	1851.0	1840.0	1858.9	1652.2	1592.2	1522.8	1540.1	1584.3
50°	7688.1	4634.6	2371.8	1778.4	1743.7	1682.2	1578.0	1521.2	1432.8	1391.8	1402.9
52.5°	8205.7	4858.7	2417.5	1690.1	1639.6	1568.5	1527.5	1458.1	1350.8	1282.9	1281.3
55°	8696.4	5062.3	2367.0	1584.3	1535.4	1480.2	1473.9	1431.3	1316.1	1221.4	1221.4
57.5°	9160.4	5232.7	2240.8	1477.0	1429.7	1396.5	1439.2	1418.6	1273.5	1152.0	1145.6
60°	9553.3	5349.5	2057.7	1368.1	1335.0	1317.6	1382.3	1376.0	1213.5	1077.8	1073.1
62.5°	9865.8	5395.2	1855.7	1264.0	1256.1	1224.5	1303.4	1303.4	1137.7	1005.2	1000.5
65°	10110.3	5351.1	1650.6	1161.4	1177.2	1129.9	1207.2	1197.7	1057.3	940.5	934.2
67.5°	10326.5	5205.9	1423.4	1060.4	1096.7	1036.8	1106.2	1084.1	968.9	875.8	869.5
70°	10422.8	4868.2	1164.6	959.4	1003.6	945.2	1005.2	964.2	869.5	806.4	793.7
72.5°	9649.6	4046.0	916.8	853.7	891.6	844.2	896.3	849.0	762.2	733.8	710.1
75°	7983.2	3036.1	705.4	738.5	766.9	730.6	765.3	730.6	651.7	672.2	613.8
77.5°	5797.6	2049.8	539.7	617.0	629.6	610.7	640.7	601.2	530.2	525.5	501.8
80°	2883.0	1200.9	422.9	487.6	482.9	470.2	505.0	486.0	426.1	451.3	446.6
82.5°	834.8	514.4	307.7	342.4	333.0	336.1	361.4	370.8	555.5	550.7	563.4
85°	262.0	202.0	184.6	190.9	181.5	186.2	213.0	422.9	391.3	228.8	247.7
87.5°	67.9	69.4	45.8	48.9	50.5	60.0	67.9	257.2	123.1	80.5	85.2
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)