

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: P528343

Luminaire Tested: **GALN-SA3B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7962 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

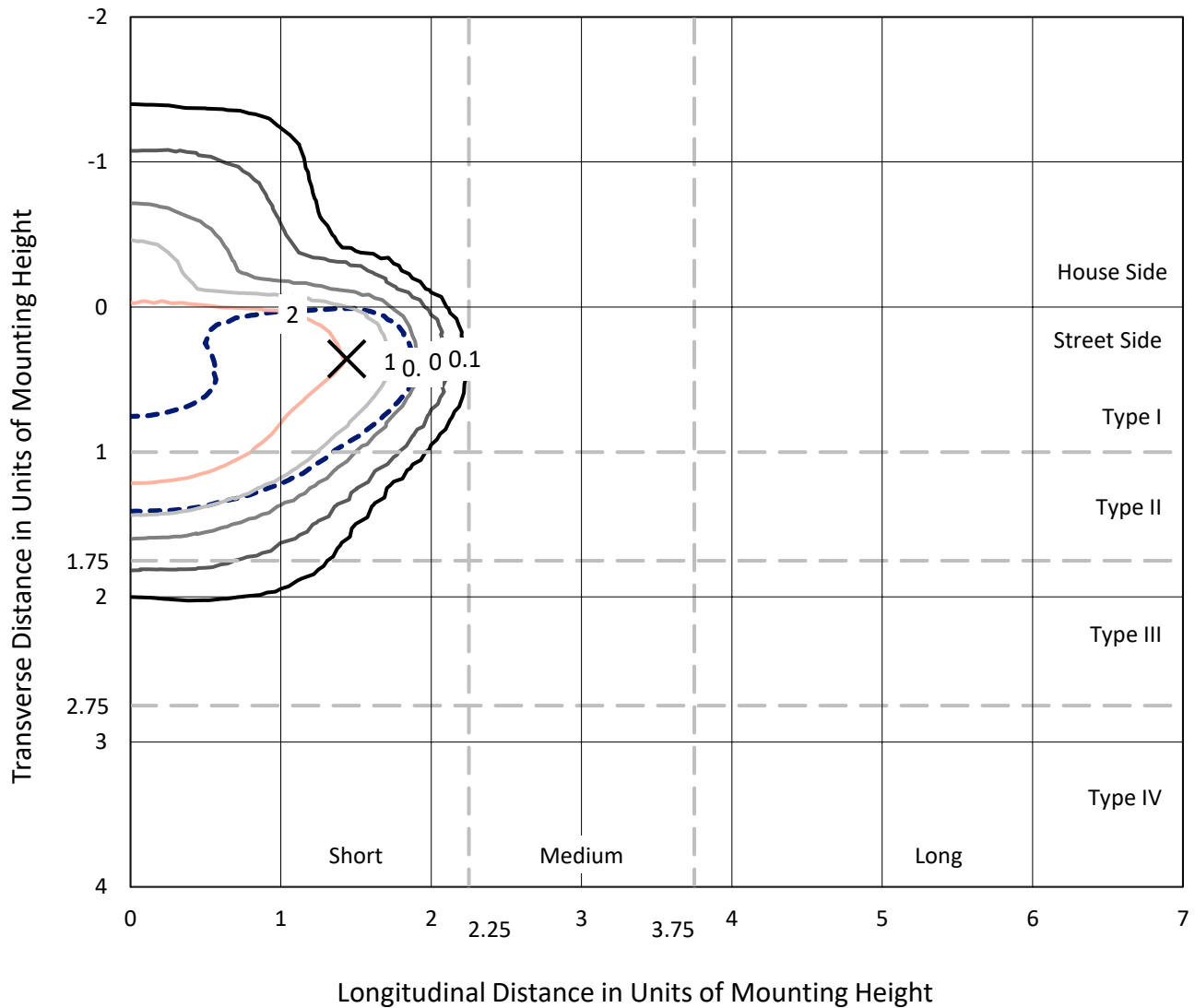
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

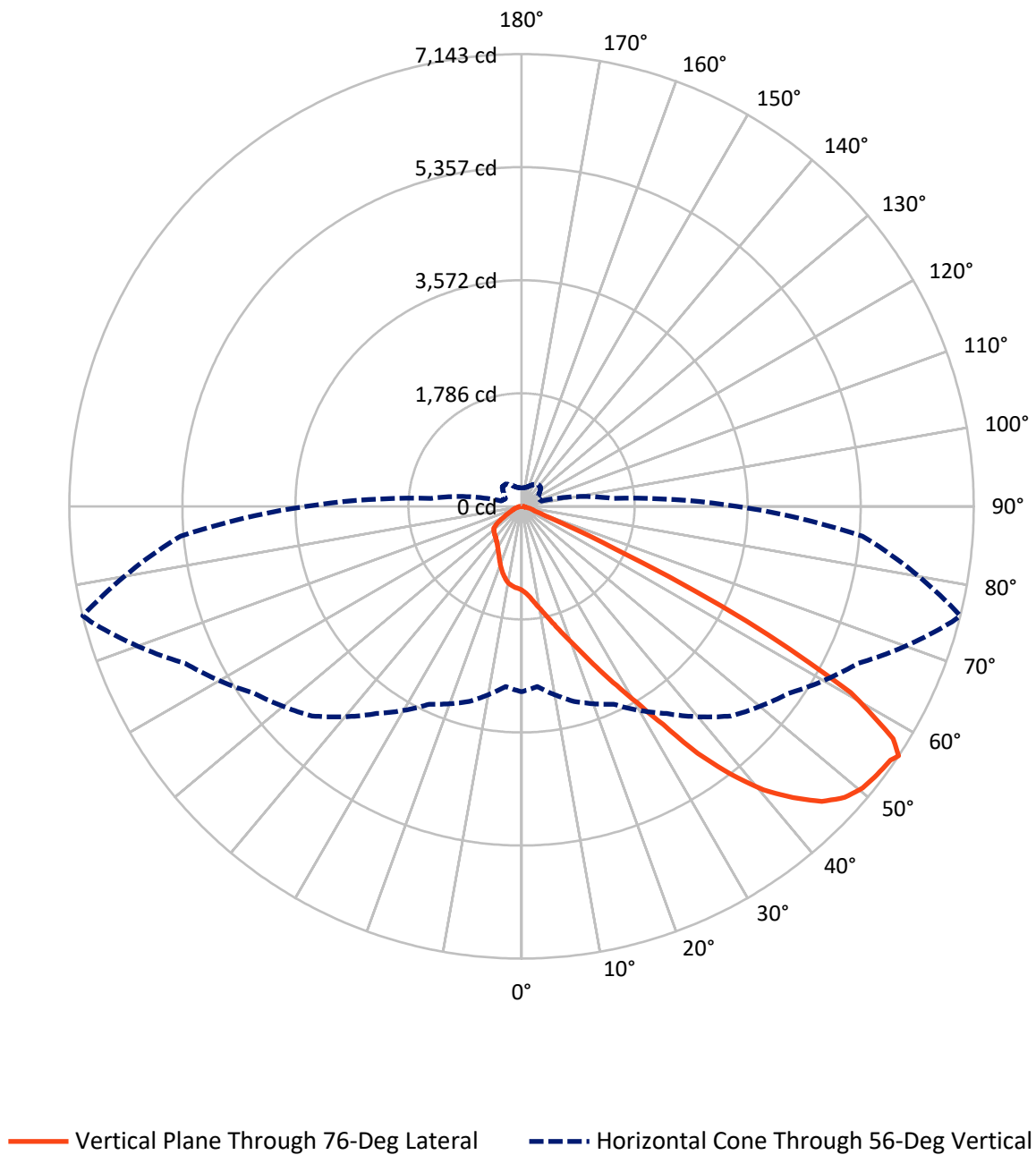
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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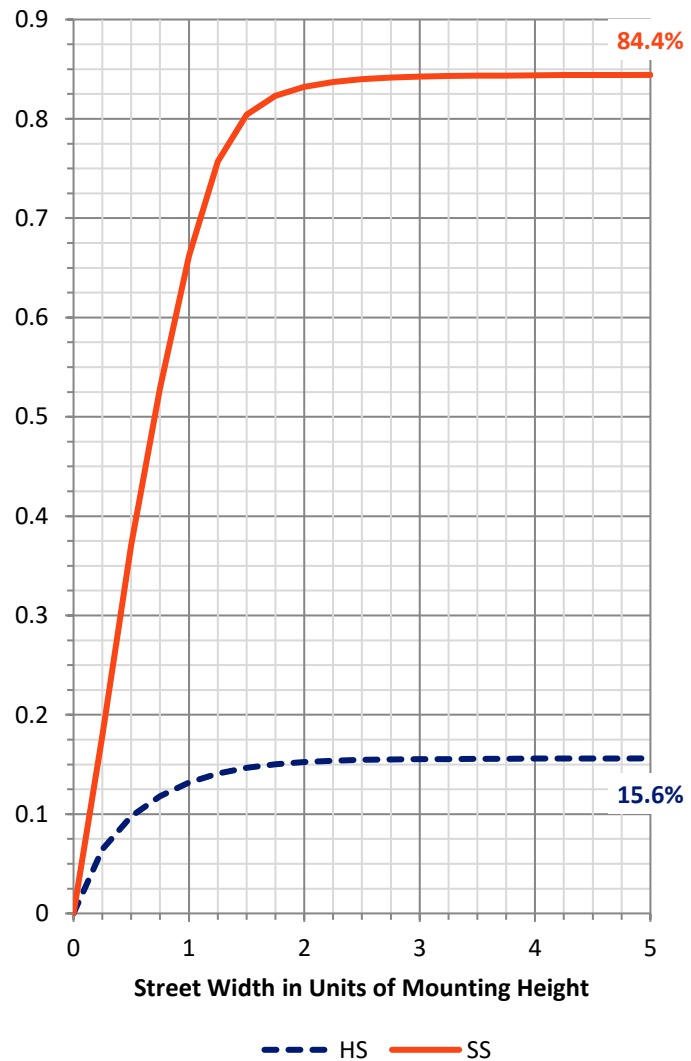
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.8	0.0	1250.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6711.2	0.0	6711.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	7962.0	0.0	7962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.7
10°-20°	428.9	5.4
20°-30°	777.7	9.8
30°-40°	1341.2	16.8
40°-50°	2178.8	27.4
50°-60°	2296.6	28.8
60°-70°	701.7	8.8
70°-80°	90.0	1.1
80°-90°	13.7	0.2
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°	7962.0	100.0
0°-180°	7962.0	100.0

Coefficient of Utilization



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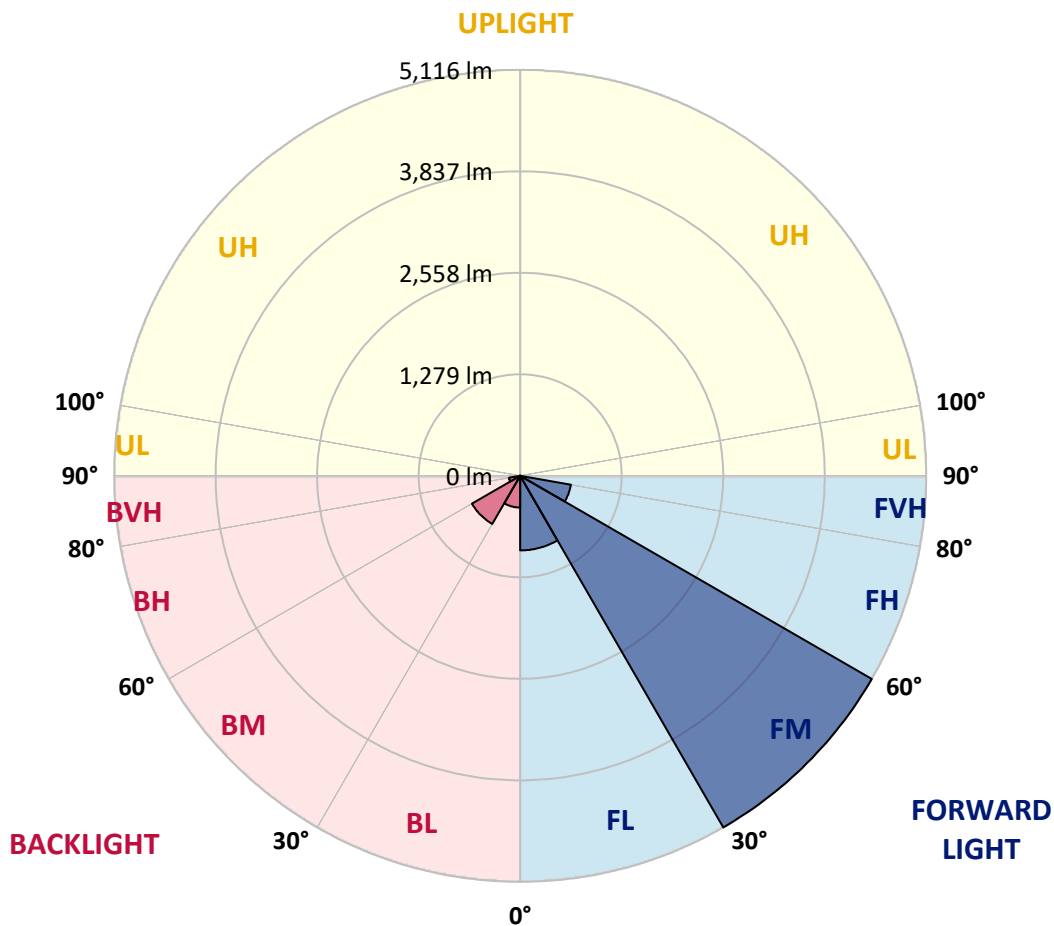
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	940.0	11.8			
FM	(30°-60°)	5115.6	64.2			
FH	(60°-80°)	649.0	8.2			G0/660
FVH	(80°-90°)	6.7	0.1			G0/10
BL	(0°-30°)	400.1	5.0	B1/500		
BM	(30°-60°)	701.0	8.8	B1/1000		
BH	(60°-80°)	142.7	1.8	B1/500		G1/500
BVH	(80°-90°)	7.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3
2.5°	1526.4	1491.1	1492.6	1489.7	1485.3	1469.1	1420.7	1413.3	1381.1	1372.3	1342.9
5°	1709.8	1679.0	1696.6	1670.2	1645.2	1630.6	1551.3	1514.6	1463.2	1444.2	1403.1
7.5°	1824.3	1809.6	1803.7	1805.2	1781.7	1745.0	1709.8	1629.1	1560.1	1545.4	1458.8
10°	1880.1	1871.3	1880.1	1875.7	1885.9	1890.3	1828.7	1780.3	1679.0	1654.0	1519.0
12.5°	1893.3	1910.9	1918.2	1937.3	1962.2	2004.8	2000.4	1934.4	1799.3	1783.2	1611.5
15°	1925.6	1940.2	1932.9	1963.7	2010.7	2082.6	2120.8	2110.5	1965.2	1935.8	1718.6
17.5°	1954.9	1928.5	1953.4	2015.1	2062.0	2172.1	2264.6	2307.1	2145.7	2111.9	1816.9
20°	1994.5	1987.2	1982.8	2013.6	2097.3	2244.0	2427.5	2505.3	2348.2	2313.0	1957.8
22.5°	2114.9	2116.3	2113.4	2067.9	2128.1	2293.9	2569.9	2762.1	2590.4	2561.0	2117.8
25°	2273.4	2254.3	2239.6	2202.9	2195.6	2339.4	2713.7	3076.2	2881.0	2860.4	2291.0
27.5°	2440.7	2440.7	2396.7	2362.9	2315.9	2452.4	2845.8	3381.5	3231.8	3203.9	2442.2
30°	2622.7	2633.0	2627.1	2555.2	2525.8	2575.7	2980.8	3771.9	3633.9	3598.7	2691.7
32.5°	2891.3	2869.3	2894.2	2834.0	2747.4	2791.5	3193.6	4121.2	4156.4	4106.5	3019.0
35°	3246.4	3233.2	3217.1	3118.8	3016.0	3051.2	3494.5	4551.2	4812.4	4787.5	3349.2
37.5°	3564.9	3557.6	3544.4	3476.9	3358.0	3400.5	3836.4	4998.8	5452.3	5370.1	3815.9
40°	3899.5	3939.2	3896.6	3836.4	3727.8	3821.8	4238.6	5264.5	5990.9	5891.1	4172.5
42.5°	4353.0	4322.2	4341.3	4231.2	4172.5	4275.3	4642.2	5530.1	6409.2	6290.3	4551.2
45°	4835.9	4837.4	4786.0	4750.8	4598.1	4709.7	4890.2	5676.9	6742.4	6649.9	4837.4
47.5°	5145.6	5144.1	5199.9	5255.7	5098.6	4988.5	5059.0	5816.3	6914.1	6871.5	4941.6
50°	5097.1	5111.8	5183.7	5392.1	5474.3	5326.1	5217.5	5775.2	6991.9	6987.5	5031.1
52.5°	4433.8	4482.2	4602.5	4903.4	5317.3	5500.7	5383.3	5851.5	7030.0	7037.4	5164.7
55°	3375.6	3402.0	3631.0	3996.4	4454.3	5082.5	5317.3	5911.7	7059.4	7072.6	5326.1
56°	2928.0	2857.5	3187.7	3447.5	3994.9	4681.8	5150.0	5864.7	7041.8	7143.0	5406.8
57.5°	2210.3	2163.3	2430.4	2754.8	3281.7	4006.7	4630.4	5643.1	6922.9	6921.4	5290.9
60°	1344.4	1297.4	1502.9	1693.7	1988.7	2467.1	3129.0	4493.9	5853.0	5976.3	4284.1
62.5°	799.9	829.2	1031.8	1147.7	1243.1	1293.0	1618.8	2671.1	3905.4	3993.5	2657.9
65°	532.8	543.0	695.7	886.5	929.0	739.7	659.0	1081.7	1693.7	1639.4	1096.3
67.5°	328.8	352.2	466.7	666.3	738.2	540.1	312.6	403.6	466.7	466.7	317.0
70°	199.6	211.3	311.1	453.5	506.3	347.8	227.5	227.5	224.6	220.1	189.3
72.5°	95.4	102.7	158.5	233.4	237.8	183.5	176.1	192.3	187.9	186.4	157.0
75°	41.1	44.0	55.8	73.4	83.7	77.8	107.1	138.0	142.4	138.0	113.0
77.5°	13.2	14.7	20.5	26.4	27.9	33.8	45.5	57.2	66.0	61.6	55.8
80°	1.5	2.9	5.9	13.2	20.5	26.4	33.8	38.2	42.6	42.6	39.6
82.5°	1.5	1.5	5.9	11.7	19.1	25.0	32.3	36.7	42.6	44.0	41.1
85°	0.0	1.5	4.4	10.3	16.1	16.1	14.7	14.7	10.3	10.3	10.3
87.5°	0.0	0.0	1.5	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9
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°	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3
2.5°	1337.0	1334.1	1294.5	1269.5	1256.3	1229.9	1213.7	1202.0	1193.2	1182.9	1184.4
5°	1354.6	1344.4	1278.3	1232.8	1178.5	1149.2	1124.2	1103.7	1090.5	1087.5	1081.7
7.5°	1404.5	1350.2	1250.4	1168.2	1099.3	1069.9	1047.9	1034.7	1040.6	1027.4	1037.6
10°	1442.7	1362.0	1216.7	1097.8	1028.8	1006.8	995.1	1005.3	1020.0	1014.1	1006.8
12.5°	1489.7	1373.7	1162.4	1030.3	965.7	949.6	970.1	989.2	1018.5	1030.3	1015.6
15°	1542.5	1386.9	1093.4	952.5	911.4	924.6	959.8	993.6	1023.0	1037.6	1046.4
17.5°	1607.1	1382.5	1025.9	890.9	860.0	898.2	940.8	971.6	1015.6	1037.6	1031.8
20°	1667.2	1367.8	951.0	829.2	830.7	865.9	901.1	951.0	974.5	1003.9	993.6
22.5°	1724.5	1341.4	873.3	786.7	786.7	841.0	858.6	890.9	911.4	926.1	924.6
25°	1805.2	1291.5	808.7	745.6	763.2	798.4	813.1	823.4	814.5	826.3	827.8
27.5°	1862.4	1240.2	755.8	708.9	741.2	767.6	763.2	757.3	736.8	720.6	730.9
30°	1924.1	1180.0	710.3	683.9	701.5	725.0	707.4	689.8	657.5	631.1	632.6
32.5°	2012.1	1152.1	670.7	654.6	678.1	681.0	661.9	635.5	603.2	578.3	576.8
35°	2176.5	1134.5	637.0	635.5	639.9	641.4	622.3	590.0	576.8	556.2	563.6
37.5°	2340.9	1125.7	613.5	607.6	606.1	607.6	585.6	554.8	579.7	578.3	581.2
40°	2550.8	1165.3	579.7	572.4	573.9	573.9	546.0	537.2	581.2	585.6	587.1
42.5°	2763.6	1215.2	557.7	534.2	540.1	540.1	525.4	515.1	546.0	516.6	512.2
45°	2948.5	1288.6	534.2	496.1	510.7	518.1	513.7	496.1	477.0	427.1	427.1
47.5°	3008.7	1353.2	506.3	459.4	471.1	503.4	490.2	453.5	419.7	378.7	375.7
50°	3114.4	1423.6	484.3	416.8	441.8	481.4	468.2	431.5	393.3	364.0	365.4
52.5°	3223.0	1504.3	443.2	366.9	397.7	463.8	463.8	422.7	364.0	343.4	340.5
55°	3385.9	1501.4	369.8	300.9	355.2	437.4	444.7	378.7	325.8	309.7	309.7
56°	3409.3	1433.9	333.2	281.8	336.1	430.0	431.5	366.9	311.1	293.5	293.5
57.5°	3233.2	1294.5	292.1	258.3	312.6	416.8	418.3	356.6	299.4	274.5	271.5
60°	2487.7	876.2	243.6	230.4	283.3	375.7	383.1	324.4	262.7	243.6	242.2
62.5°	1404.5	485.8	214.3	208.4	243.6	319.9	342.0	283.3	223.1	212.8	215.7
65°	641.4	267.1	180.5	168.8	196.7	246.6	275.9	233.4	183.5	171.7	171.7
67.5°	234.8	182.0	154.1	133.6	138.0	160.0	179.1	151.2	121.8	104.2	108.6
70°	167.3	152.6	135.0	115.9	107.1	104.2	102.7	85.1	60.2	47.0	49.9
72.5°	135.0	126.2	113.0	98.3	83.7	70.4	60.2	44.0	27.9	19.1	17.6
75°	96.9	92.5	82.2	70.4	58.7	49.9	41.1	27.9	14.7	7.3	7.3
77.5°	49.9	49.9	48.4	44.0	36.7	29.4	23.5	16.1	8.8	2.9	2.9
80°	38.2	41.1	42.6	38.2	33.8	26.4	19.1	11.7	5.9	1.5	1.5
82.5°	36.7	42.6	45.5	39.6	33.8	25.0	19.1	11.7	5.9	1.5	1.5
85°	8.8	8.8	13.2	14.7	19.1	20.5	16.1	10.3	4.4	1.5	1.5
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5	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)