

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: P528818

Luminaire Tested: **GALN-SA3D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16019 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 184
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



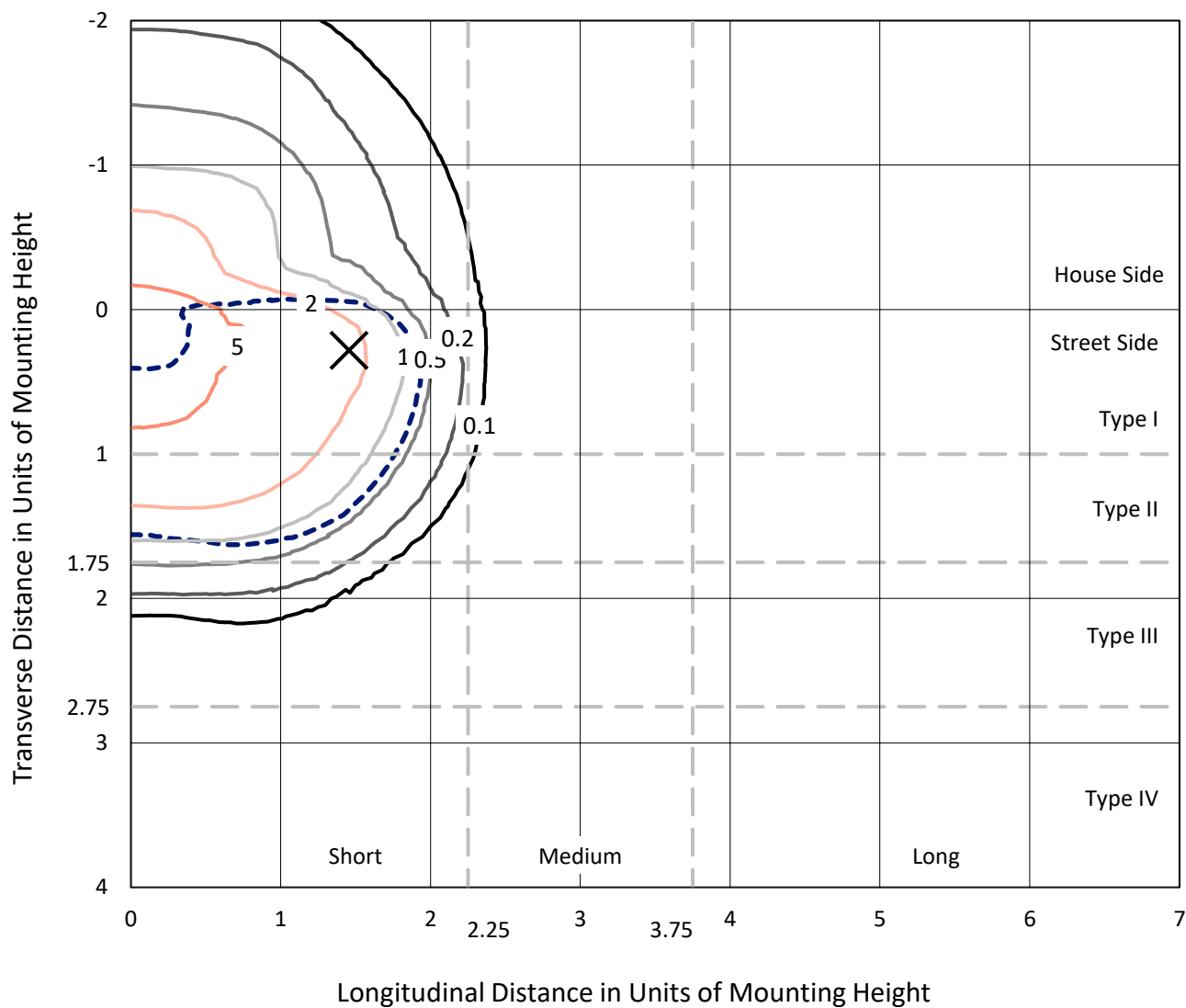
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

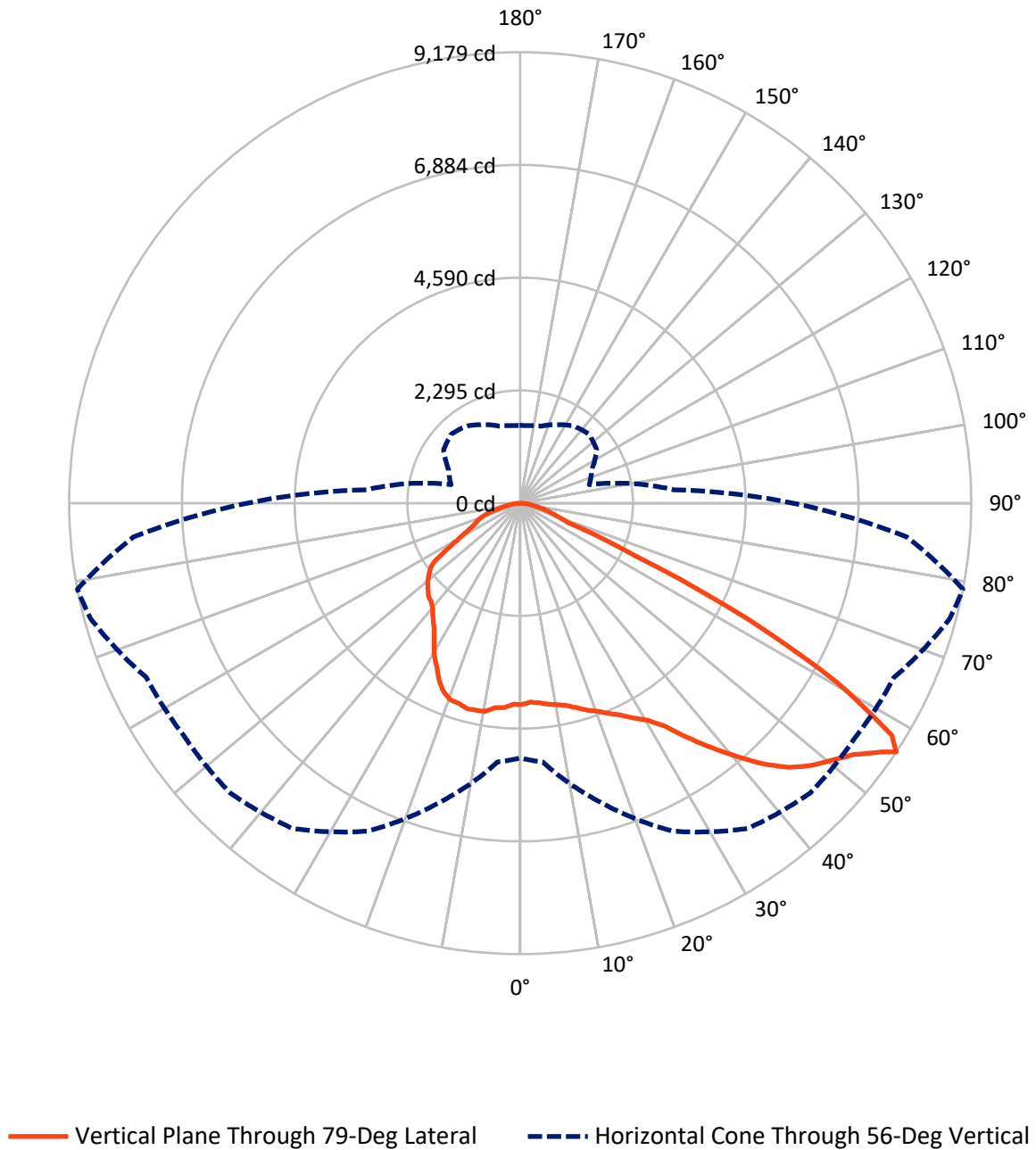


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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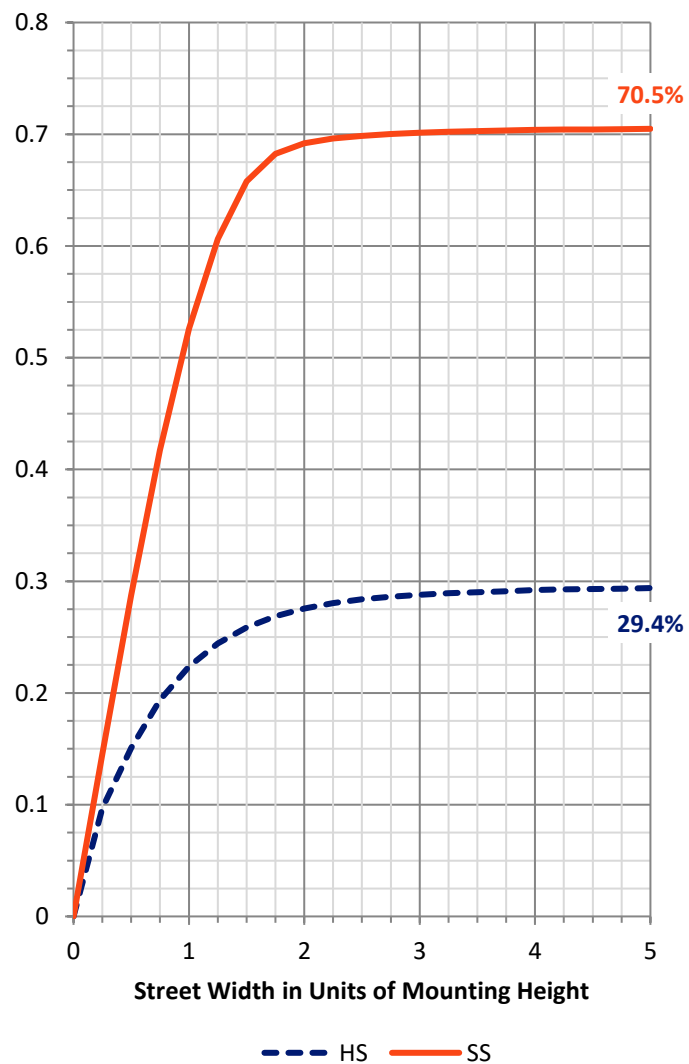
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4730.8	0.0	4730.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11288.2	0.0	11288.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	16019.0	0.0	16019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	2.3
10°-20°	1019.8	6.4
20°-30°	1744.7	10.9
30°-40°	2674.0	16.7
40°-50°	3613.9	22.6
50°-60°	4150.7	25.9
60°-70°	1892.0	11.8
70°-80°	466.5	2.9
80°-90°	84.8	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°	16019.0	100.0
0°-180°	16019.0	100.0

Coefficient of Utilization



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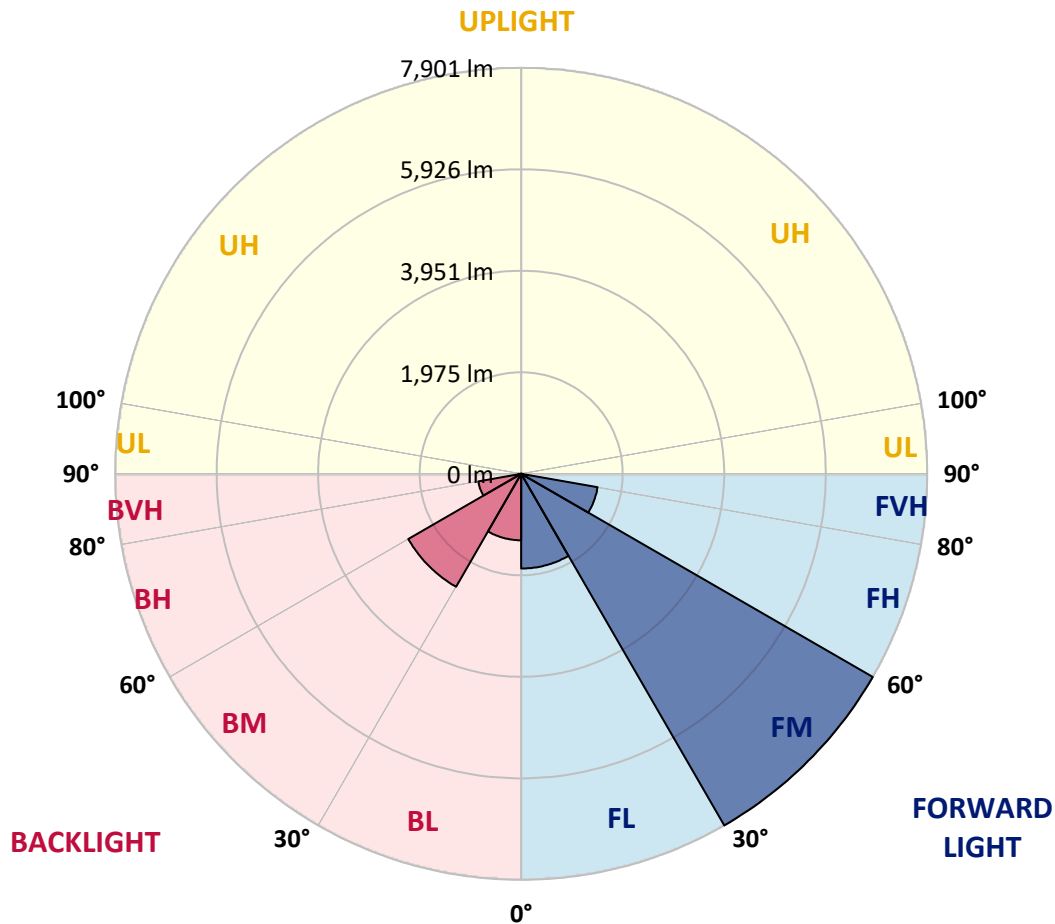
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.1	11.5			
FM	(30°-60°)	7901.0	49.3			
FH	(60°-80°)	1510.2	9.4			G1/1800
FVH	(80°-90°)	33.9	0.2			G1/100
BL	(0°-30°)	1294.1	8.1	B3/2500		
BM	(30°-60°)	2537.5	15.8	B3/5000		
BH	(60°-80°)	848.2	5.3	B2/1000		G2/1000
BVH	(80°-90°)	50.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6
2.5°	3899.1	3889.1	3913.1	3931.0	3953.0	3980.9	3994.9	4002.8	4072.7	4054.7	4108.6
5°	3815.3	3789.3	3807.3	3821.3	3859.2	3893.1	3931.0	3990.9	4054.7	4082.7	4148.5
7.5°	3741.4	3727.5	3723.5	3733.5	3785.3	3829.2	3895.1	3982.9	4086.7	4132.6	4170.5
10°	3619.7	3599.8	3629.7	3695.5	3709.5	3801.3	3877.1	4002.8	4092.6	4172.5	4284.2
12.5°	3565.8	3545.9	3551.9	3589.8	3687.6	3775.4	3865.2	4006.8	4196.4	4228.3	4378.0
15°	3651.6	3631.7	3637.7	3627.7	3721.5	3767.4	3909.1	4086.7	4268.2	4322.1	4481.8
17.5°	3847.2	3849.2	3823.3	3801.3	3779.4	3877.1	3974.9	4134.5	4296.2	4431.9	4551.6
20°	4220.3	4154.5	4102.6	3978.9	3945.0	3986.9	4110.6	4264.2	4409.9	4521.7	4657.4
22.5°	4507.7	4513.7	4439.8	4236.3	4162.5	4180.4	4286.2	4411.9	4571.5	4651.4	4807.0
25°	4924.7	4882.8	4803.0	4641.4	4475.8	4489.7	4567.6	4681.3	4725.2	4781.1	4950.7
27.5°	5305.9	5317.8	5160.2	5008.5	4803.0	4763.1	4902.8	4922.7	4848.9	4954.7	5012.5
30°	5693.0	5683.0	5579.2	5401.6	5200.1	5208.1	5269.9	5172.2	5070.4	5128.3	5168.2
32.5°	6094.1	5980.3	5976.3	5816.7	5663.1	5589.2	5513.4	5561.3	5403.6	5415.6	5377.7
35°	6415.3	6431.3	6339.5	6225.8	6149.9	6020.2	5812.7	5898.5	5868.6	5854.6	5691.0
37.5°	6648.8	6586.9	6632.8	6594.9	6523.1	6361.5	6145.9	6227.8	6241.7	6309.6	6120.0
40°	6840.4	6814.4	6936.1	6956.1	6906.2	6557.0	6169.9	6413.3	6622.9	6770.5	6545.0
42.5°	6932.1	6988.0	7115.7	7269.4	7157.6	6784.5	6293.6	6555.0	7021.9	7255.4	6948.1
45°	7055.9	6984.0	7173.6	7455.0	7456.9	6976.0	6413.3	6746.6	7333.2	7672.5	7223.5
47.5°	6930.2	6966.1	7161.6	7518.8	7610.6	7177.6	6736.6	7018.0	7676.4	7977.8	7478.9
50°	6648.8	6720.6	7077.8	7449.0	7726.3	7391.1	7107.7	7311.3	7993.7	8223.2	7520.8
52.5°	6355.5	6395.4	6954.1	7502.8	7778.2	7666.5	7604.6	7716.4	8380.8	8500.6	7572.7
55°	5557.3	5746.9	6545.0	7478.9	8031.6	8163.3	8115.4	8279.1	8819.8	8939.6	7856.0
56°	5188.1	5287.9	6299.6	7367.2	8081.5	8344.9	8321.0	8394.8	9053.3	9179.0	7899.9
57.5°	4505.7	4513.7	5371.7	6872.3	7893.9	8398.8	8374.8	8432.7	9007.4	8921.6	7514.8
60°	2819.6	2943.3	3655.6	5285.9	6712.7	7792.2	7927.9	7462.9	7594.6	7413.0	5846.6
62.5°	1460.7	1442.7	1915.6	3090.9	4455.8	5579.2	5705.0	5683.0	5479.5	5214.1	3819.3
65°	728.3	732.3	1001.7	1530.5	2282.8	2921.3	3272.5	3310.4	2769.7	2548.2	1811.9
67.5°	528.8	548.7	720.4	935.9	1075.5	1203.2	1474.6	1446.7	1095.5	1041.6	965.8
70°	411.1	429.0	584.7	714.4	648.5	648.5	706.4	730.3	780.2	802.2	828.1
72.5°	299.3	313.3	447.0	492.9	425.0	457.0	528.8	584.7	636.5	644.5	674.5
75°	205.5	217.5	293.3	271.4	255.4	315.3	387.1	439.0	476.9	496.9	514.8
77.5°	133.7	137.7	167.6	141.7	163.6	203.5	251.4	295.3	333.2	349.2	353.2
80°	59.9	65.8	71.8	89.8	113.7	145.7	179.6	215.5	239.5	245.4	257.4
82.5°	33.9	33.9	43.9	63.9	83.8	105.8	129.7	155.6	183.6	189.6	187.6
85°	18.0	18.0	25.9	37.9	51.9	61.9	59.9	61.9	65.8	75.8	73.8
87.5°	6.0	6.0	8.0	8.0	10.0	12.0	10.0	14.0	18.0	18.0	18.0
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°	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6
2.5°	4092.6	4110.6	4086.7	4138.5	4138.5	4128.6	4078.7	4094.6	4106.6	4106.6	4116.6
5°	4170.5	4164.5	4180.4	4118.6	4080.7	4066.7	3984.9	3945.0	3911.1	3909.1	3879.1
7.5°	4214.4	4198.4	4192.4	4146.5	3978.9	3877.1	3701.5	3599.8	3577.8	3500.0	3529.9
10°	4284.2	4314.1	4284.2	4034.8	3801.3	3567.8	3396.2	3238.6	3176.7	3126.8	3096.9
12.5°	4427.9	4413.9	4240.3	3903.1	3575.8	3298.5	3043.0	2877.4	2815.6	2771.7	2767.7
15°	4549.6	4479.8	4214.4	3695.5	3224.6	2929.3	2719.8	2602.0	2574.1	2578.1	2596.1
17.5°	4591.5	4543.6	4078.7	3480.0	2963.2	2616.0	2518.2	2500.3	2526.2	2556.2	2564.1
20°	4657.4	4581.5	4022.8	3186.7	2640.0	2420.5	2414.5	2478.3	2526.2	2570.1	2576.1
22.5°	4795.0	4603.5	3841.2	2909.3	2418.5	2362.6	2420.5	2474.3	2548.2	2584.1	2552.2
25°	4834.9	4555.6	3585.8	2576.1	2278.8	2326.7	2388.5	2462.4	2514.3	2534.2	2548.2
27.5°	4868.9	4481.8	3240.6	2354.6	2234.9	2324.7	2388.5	2450.4	2478.3	2496.3	2512.3
30°	4964.6	4459.8	2941.3	2207.0	2207.0	2284.8	2366.6	2382.6	2420.5	2442.4	2470.4
32.5°	5012.5	4308.1	2634.0	2113.2	2179.0	2304.7	2310.7	2340.6	2342.6	2360.6	2330.7
35°	5138.3	4200.4	2348.6	2045.3	2191.0	2284.8	2314.7	2296.7	2199.0	2151.1	2161.1
37.5°	5230.0	4146.5	2143.1	2037.3	2193.0	2306.7	2322.7	2187.0	2085.2	2005.4	2025.4
40°	5477.5	4012.8	1987.5	2023.4	2210.9	2330.7	2286.8	2139.1	1955.5	1873.7	1859.7
42.5°	5667.0	3917.0	1889.7	2007.4	2224.9	2364.6	2268.8	2043.3	1855.8	1779.9	1799.9
45°	5886.5	3895.1	1837.8	2011.4	2248.9	2382.6	2246.9	1969.5	1770.0	1740.0	1734.0
47.5°	5964.4	3737.5	1781.9	1977.5	2242.9	2376.6	2173.0	1913.6	1738.0	1742.0	1758.0
50°	5834.7	3575.8	1740.0	1907.6	2203.0	2322.7	2057.3	1839.8	1720.1	1770.0	1797.9
52.5°	5669.0	3410.2	1654.2	1813.9	2121.1	2238.9	2003.4	1835.8	1702.1	1686.1	1692.1
55°	5718.9	3274.5	1534.5	1686.1	1989.5	2083.2	1943.6	1797.9	1658.2	1598.3	1618.3
56°	5557.3	3134.8	1456.7	1606.3	1899.7	1983.5	1913.6	1764.0	1622.3	1582.4	1582.4
57.5°	5100.3	2665.9	1354.9	1478.6	1710.1	1809.9	1855.8	1744.0	1582.4	1512.5	1514.5
60°	3761.4	1895.7	1215.2	1303.0	1416.8	1496.6	1710.1	1688.1	1482.6	1434.7	1416.8
62.5°	2318.7	1384.8	1115.4	1149.4	1207.2	1273.1	1492.6	1528.5	1376.9	1325.0	1313.0
65°	1299.0	1059.6	1039.6	1053.6	1081.5	1115.4	1239.2	1319.0	1215.2	1135.4	1131.4
67.5°	949.8	947.8	963.8	975.8	987.7	987.7	1017.7	1049.6	1035.6	971.8	965.8
70°	844.1	850.1	862.0	864.0	868.0	854.0	830.1	820.1	836.1	796.2	788.2
72.5°	696.4	716.4	730.3	732.3	710.4	692.4	660.5	626.6	614.6	606.6	604.6
75°	534.8	548.7	554.7	552.7	544.8	518.8	480.9	447.0	425.0	401.1	413.1
77.5°	361.2	381.1	391.1	391.1	379.1	339.2	321.3	295.3	273.4	247.4	251.4
80°	253.4	267.4	283.4	281.4	261.4	241.4	215.5	191.6	173.6	153.6	151.7
82.5°	189.6	197.5	205.5	201.5	187.6	167.6	149.7	127.7	107.8	93.8	93.8
85°	67.8	73.8	89.8	93.8	101.8	101.8	85.8	71.8	57.9	47.9	47.9
87.5°	20.0	20.0	21.9	21.9	20.0	21.9	18.0	20.0	21.9	14.0	14.0
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)