

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: P454653

Luminaire Tested: **GALN-SA5D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35204 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

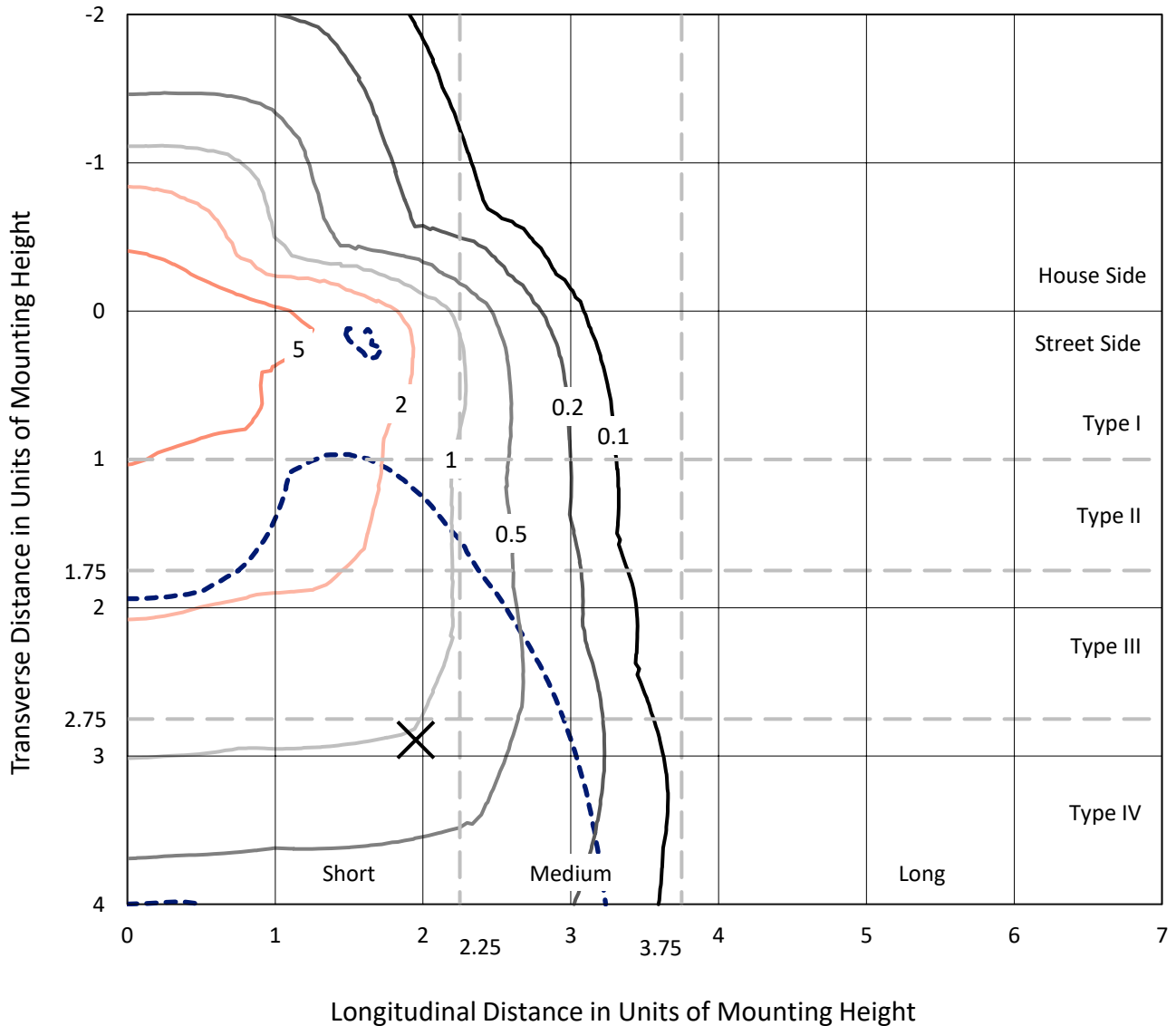
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

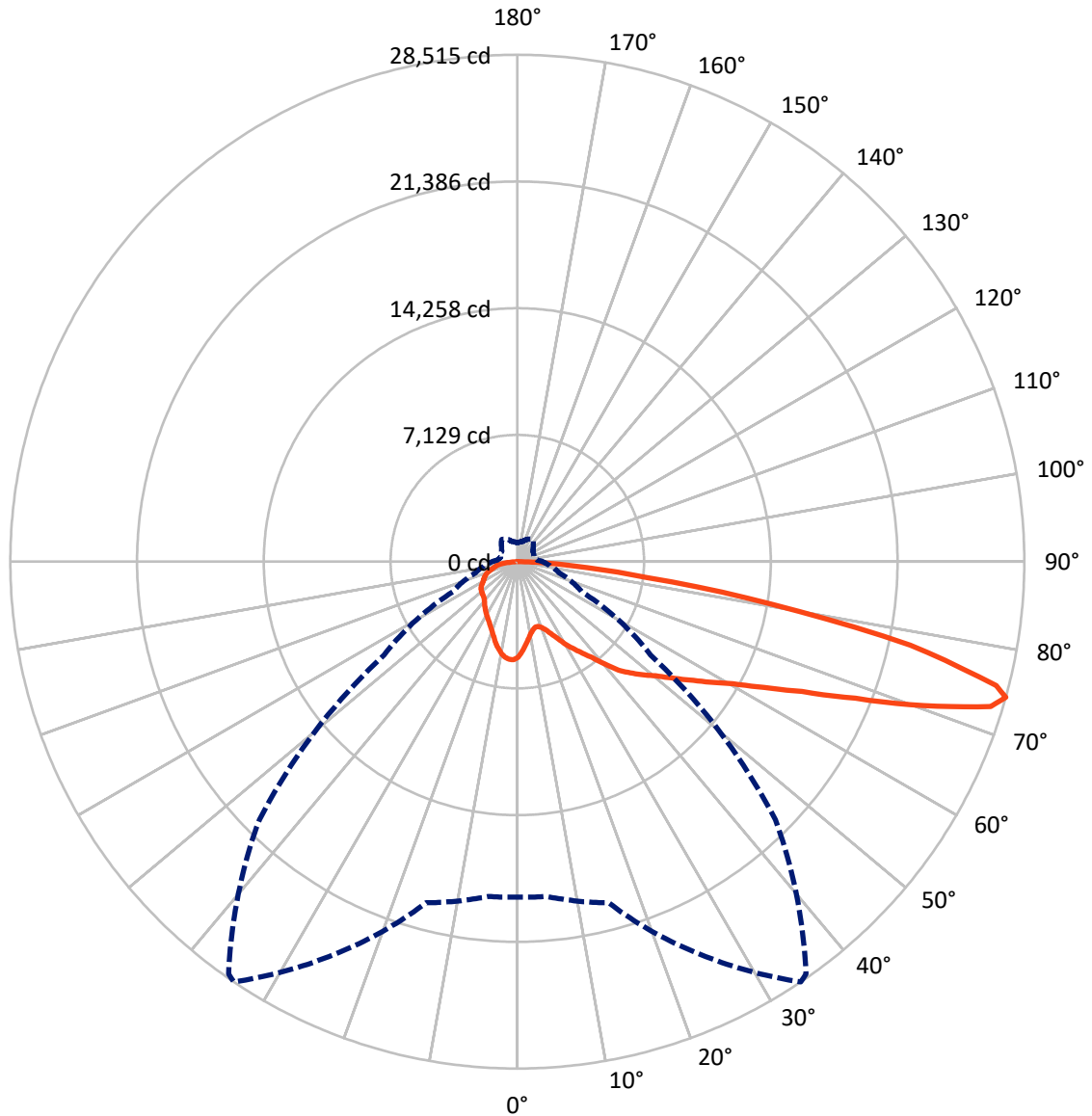
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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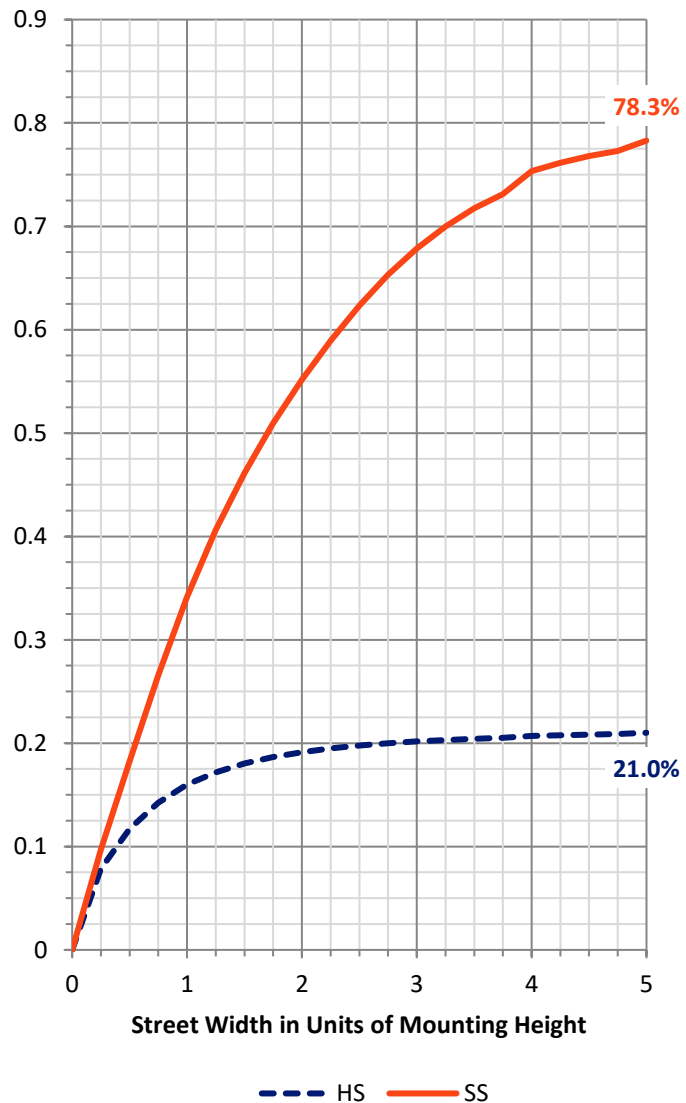
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7491.7	0.0	7491.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	27712.3	0.0	27712.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	35204.0	0.0	35204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	1.4
10°-20°	1338.1	3.8
20°-30°	2206.3	6.3
30°-40°	3304.7	9.4
40°-50°	4804.2	13.6
50°-60°	6710.3	19.1
60°-70°	8400.9	23.9
70°-80°	6946.9	19.7
80°-90°	1003.8	2.9
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°	35204.0	100.0
0°-180°	35204.0	100.0

Coefficient of Utilization



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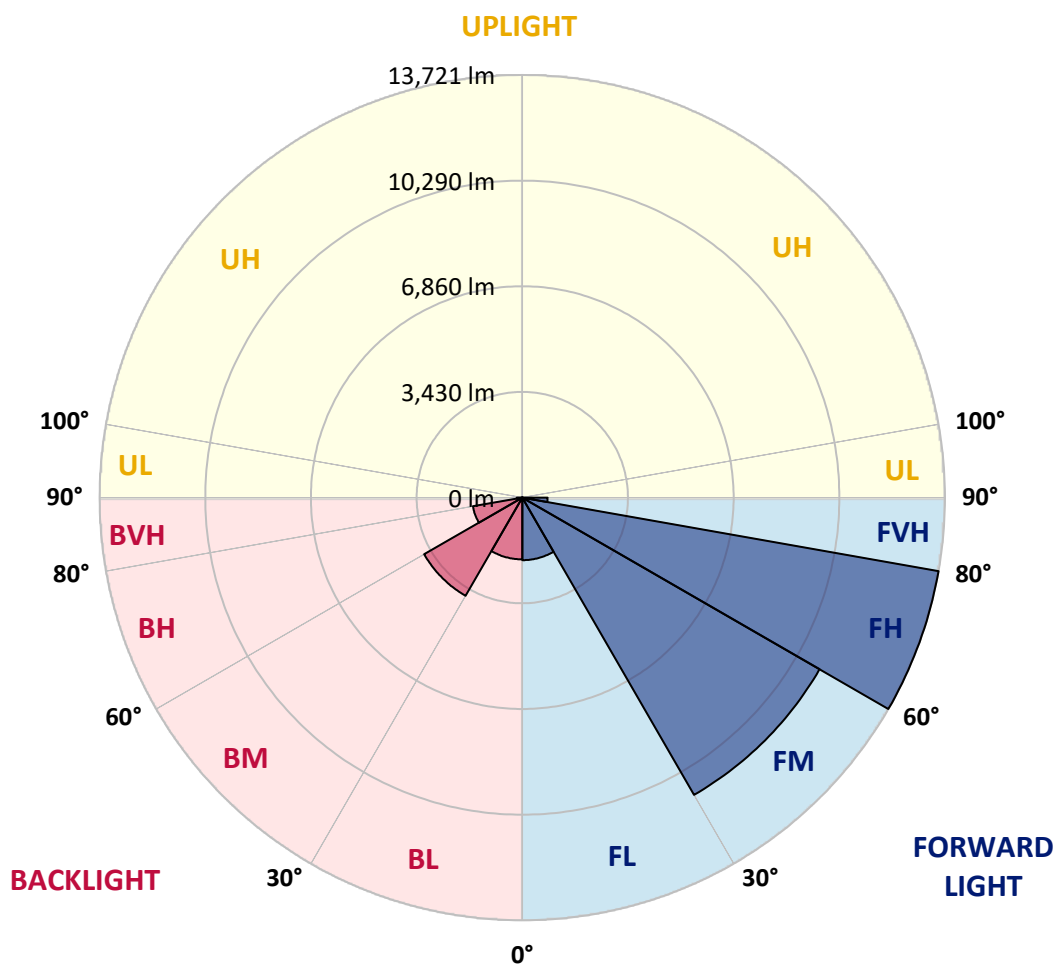
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.4	5.8			
FM (30°-60°)	11140.0	31.6			
FH (60°-80°)	13720.7	39.0			G5
FVH (80°-90°)	822.3	2.3			G5
BL (0°-30°)	2003.9	5.7	B3/2500		
BM (30°-60°)	3679.2	10.5	B3/5000		
BH (60°-80°)	1627.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	181.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0
2.5°	4967.3	4992.7	5006.4	5055.1	5066.8	5082.4	5123.4	5178.0	5248.2	5310.6	5365.2
5°	4553.9	4592.9	4616.3	4659.2	4743.1	4750.9	4860.1	4984.9	5127.3	5259.9	5369.1
7.5°	4161.9	4204.8	4224.3	4302.3	4413.5	4431.0	4590.9	4787.9	5025.9	5226.7	5394.5
10°	3867.4	3888.8	3931.8	3990.3	4122.9	4134.6	4343.3	4606.5	4914.7	5211.1	5437.4
12.5°	3707.5	3719.2	3728.9	3791.3	3922.0	3939.6	4158.0	4456.4	4826.9	5222.8	5507.6
15°	3730.9	3734.8	3691.9	3703.6	3808.9	3834.2	4050.7	4356.9	4772.3	5252.1	5612.9
17.5°	3927.9	3914.2	3808.9	3754.3	3828.4	3840.1	4029.3	4317.9	4747.0	5306.7	5722.1
20°	4237.9	4218.4	4037.1	3916.1	3959.1	3968.8	4099.5	4347.2	4772.3	5396.4	5891.8
22.5°	4624.1	4616.3	4341.3	4195.0	4193.1	4193.1	4261.3	4452.5	4848.4	5519.3	6069.3
25°	5164.3	5123.4	4764.5	4575.3	4522.7	4518.8	4511.0	4626.0	4945.9	5649.9	6279.9
27.5°	5718.2	5648.0	5328.1	5037.6	4924.4	4910.8	4860.1	4871.8	5070.7	5798.2	6519.8
30°	6215.5	6170.7	5870.3	5548.5	5414.0	5382.8	5242.3	5178.0	5279.4	6065.4	6902.0
32.5°	6595.8	6568.5	6334.5	6041.9	5843.0	5837.2	5632.4	5579.7	5605.1	6389.1	7338.9
35°	6904.0	6913.7	6794.8	6541.2	6313.0	6279.9	6143.4	6077.1	6002.9	6857.2	7888.9
37.5°	7325.2	7346.7	7338.9	7120.4	6841.6	6849.4	6818.2	6708.9	6512.0	7379.8	8499.3
40°	7789.4	7805.0	7803.0	7719.2	7572.9	7580.7	7569.0	7444.2	7149.7	8044.9	9178.0
42.5°	8431.0	8356.9	8163.8	8247.7	8333.5	8370.6	8450.5	8331.6	7927.9	8754.8	9815.7
45°	9148.7	9008.3	8571.5	8610.5	8928.4	8998.6	9439.3	9275.5	8772.3	9570.0	10566.6
47.5°	9601.2	9462.7	9094.1	9086.3	9507.6	9575.8	10356.0	10295.5	9540.7	10449.6	11483.2
50°	10004.9	9985.4	9570.0	9669.5	10081.0	10182.4	11354.5	11297.9	10307.2	11487.1	12481.8
52.5°	10603.6	10445.7	10114.1	10318.9	10863.0	10995.6	12345.2	12179.5	11011.2	12403.7	13451.0
55°	10872.8	10835.7	10816.2	10993.7	11740.6	11836.2	13308.7	12928.4	11611.9	13180.0	14188.2
57.5°	11592.4	11524.2	11717.2	11838.2	12774.3	12920.6	14315.0	13710.4	12138.5	13796.2	14547.1
60°	12524.7	12487.6	12665.1	12883.5	13928.9	14151.2	15461.8	14377.4	12561.7	14106.3	14350.1
62.5°	13917.2	13913.3	13880.1	14348.2	15565.1	15769.9	16778.2	15026.9	12628.0	13874.2	13332.1
65°	15914.2	15844.0	15555.4	16066.4	17601.2	17841.1	18149.2	15389.6	12228.2	12682.6	11225.8
67.5°	18003.0	17999.1	17765.0	18428.1	20524.7	20772.4	19863.5	15309.6	11118.5	10274.0	7972.7
70°	19734.8	19651.0	19949.4	21716.3	24259.5	24546.1	21363.3	14367.7	8856.2	6785.0	4737.2
72.5°	20150.2	20154.1	20774.3	24251.7	27846.0	27890.9	21903.5	11645.1	5926.9	3742.6	2369.6
74°	18870.8	18904.0	19865.5	24378.4	28515.0	28312.1	20522.7	9152.6	4007.8	2443.7	1708.4
75°	17224.8	17016.1	18406.7	23534.0	27820.7	27602.2	18906.0	7344.7	3058.0	1952.2	1495.9
77.5°	9209.2	9421.8	11567.1	17562.2	22601.7	22350.1	12819.1	3522.2	1651.9	1359.3	1076.6
80°	3278.4	3615.8	5082.4	9189.7	14490.5	14568.5	6118.0	1614.8	1162.4	1002.4	760.6
82.5°	1337.9	1374.9	2182.4	4078.0	7358.4	7428.6	2498.3	959.5	830.8	690.4	454.4
85°	522.7	538.3	965.4	1833.3	3139.9	3344.7	864.0	507.1	511.0	395.9	232.1
87.5°	175.5	198.9	395.9	610.4	1066.8	1045.3	251.6	150.2	183.3	171.6	72.2
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°	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0	5375.0
2.5°	5392.5	5429.6	5454.9	5482.2	5507.6	5515.4	5509.5	5527.1	5529.0	5531.0	5532.9
5°	5423.7	5474.4	5523.2	5550.5	5562.2	5552.4	5519.3	5501.7	5486.1	5474.4	5478.3
7.5°	5466.6	5538.8	5583.6	5595.3	5564.1	5519.3	5437.4	5373.0	5332.0	5304.7	5302.8
10°	5532.9	5603.1	5640.2	5607.0	5521.2	5412.0	5283.3	5162.4	5070.7	5043.4	5041.5
12.5°	5616.8	5696.7	5694.8	5597.3	5447.1	5252.1	5043.4	4903.0	4778.2	4715.8	4741.1
15°	5726.0	5786.5	5729.9	5554.4	5316.4	5049.3	4791.8	4600.7	4460.3	4394.0	4397.9
17.5°	5852.8	5905.4	5755.3	5478.3	5133.1	4789.9	4491.5	4310.1	4198.9	4150.2	4146.3
20°	6010.7	6026.3	5755.3	5345.7	4897.1	4487.6	4202.8	4076.1	4013.7	3988.3	3996.1
22.5°	6180.4	6149.2	5724.1	5158.5	4587.0	4171.6	3980.5	3924.0	3892.7	3888.8	3892.7
25°	6371.5	6283.8	5659.7	4904.9	4263.3	3898.6	3787.4	3797.2	3803.0	3803.0	3816.7
27.5°	6605.6	6430.1	5552.4	4585.1	3884.9	3645.1	3613.9	3682.1	3713.3	3719.2	3728.9
30°	6913.7	6590.0	5375.0	4185.3	3563.2	3416.9	3471.5	3563.2	3598.3	3619.7	3615.8
32.5°	7280.4	6765.5	5135.1	3785.5	3303.8	3257.0	3323.3	3416.9	3455.9	3467.6	3452.0
35°	7711.4	6964.4	4819.1	3411.0	3077.5	3104.8	3182.8	3212.1	3247.2	3247.2	3255.0
37.5°	8175.5	7124.4	4433.0	3067.8	2902.0	3001.5	3058.0	3030.7	3015.1	2995.6	3005.4
40°	8647.5	7243.3	3931.8	2728.4	2726.5	2894.2	2909.8	2831.8	2769.4	2749.9	2740.1
42.5°	9059.0	7317.4	3479.3	2465.1	2560.7	2788.9	2800.6	2675.8	2576.3	2517.8	2498.3
45°	9544.6	7403.2	3036.6	2246.7	2406.6	2705.0	2734.3	2566.6	2420.3	2297.4	2266.2
47.5°	10209.7	7598.3	2687.5	2077.0	2295.5	2652.4	2693.3	2476.8	2283.8	2123.8	2098.5
50°	10960.5	7865.5	2416.4	1962.0	2209.7	2605.6	2656.3	2385.2	2157.0	1979.5	1960.0
52.5°	11649.0	8009.8	2182.4	1858.6	2125.8	2519.8	2607.5	2318.9	2032.2	1835.2	1817.7
55°	12025.4	7775.7	1952.2	1757.2	2010.7	2408.6	2539.3	2227.2	1911.3	1759.1	1733.8
57.5°	12076.1	7292.1	1743.5	1648.0	1889.8	2272.1	2412.5	2116.0	1833.3	1706.5	1685.0
60°	11684.1	6570.5	1581.7	1558.3	1766.9	2118.0	2270.1	2018.5	1753.3	1648.0	1626.5
62.5°	10709.0	5786.5	1468.6	1476.4	1642.1	1956.1	2164.8	1924.9	1677.2	1583.6	1564.1
65°	9031.7	4776.2	1359.3	1392.5	1531.0	1829.4	2069.2	1846.9	1601.2	1534.9	1517.3
67.5°	6274.0	3448.1	1269.6	1304.7	1425.7	1700.6	1958.1	1763.0	1515.4	1480.3	1453.0
70°	3473.4	2121.9	1164.3	1205.3	1316.4	1556.3	1833.3	1636.3	1390.5	1374.9	1335.9
72.5°	1825.5	1351.5	1045.3	1090.2	1168.2	1371.0	1642.1	1497.8	1267.7	1201.4	1150.7
74°	1425.7	1107.8	965.4	1012.2	1064.8	1261.8	1529.0	1398.3	1179.9	1101.9	1062.9
75°	1242.3	986.8	897.1	957.6	1004.4	1187.7	1441.3	1328.1	1131.2	1057.0	1021.9
77.5°	877.6	739.2	733.3	805.5	830.8	1041.4	1298.9	1209.2	1008.3	930.3	897.1
80°	616.3	553.9	581.2	626.0	661.1	920.5	1205.3	1045.3	826.9	735.3	723.6
82.5°	401.8	362.8	415.4	456.4	468.1	678.7	973.2	793.8	602.6	489.5	454.4
85°	185.3	181.4	237.9	232.1	230.1	331.5	577.3	464.2	347.1	259.4	243.8
87.5°	46.8	44.9	58.5	48.8	58.5	50.7	52.7	13.7	2.0	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)