

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: P318539

Luminaire Tested: **GLEON-SA5D-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28513 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

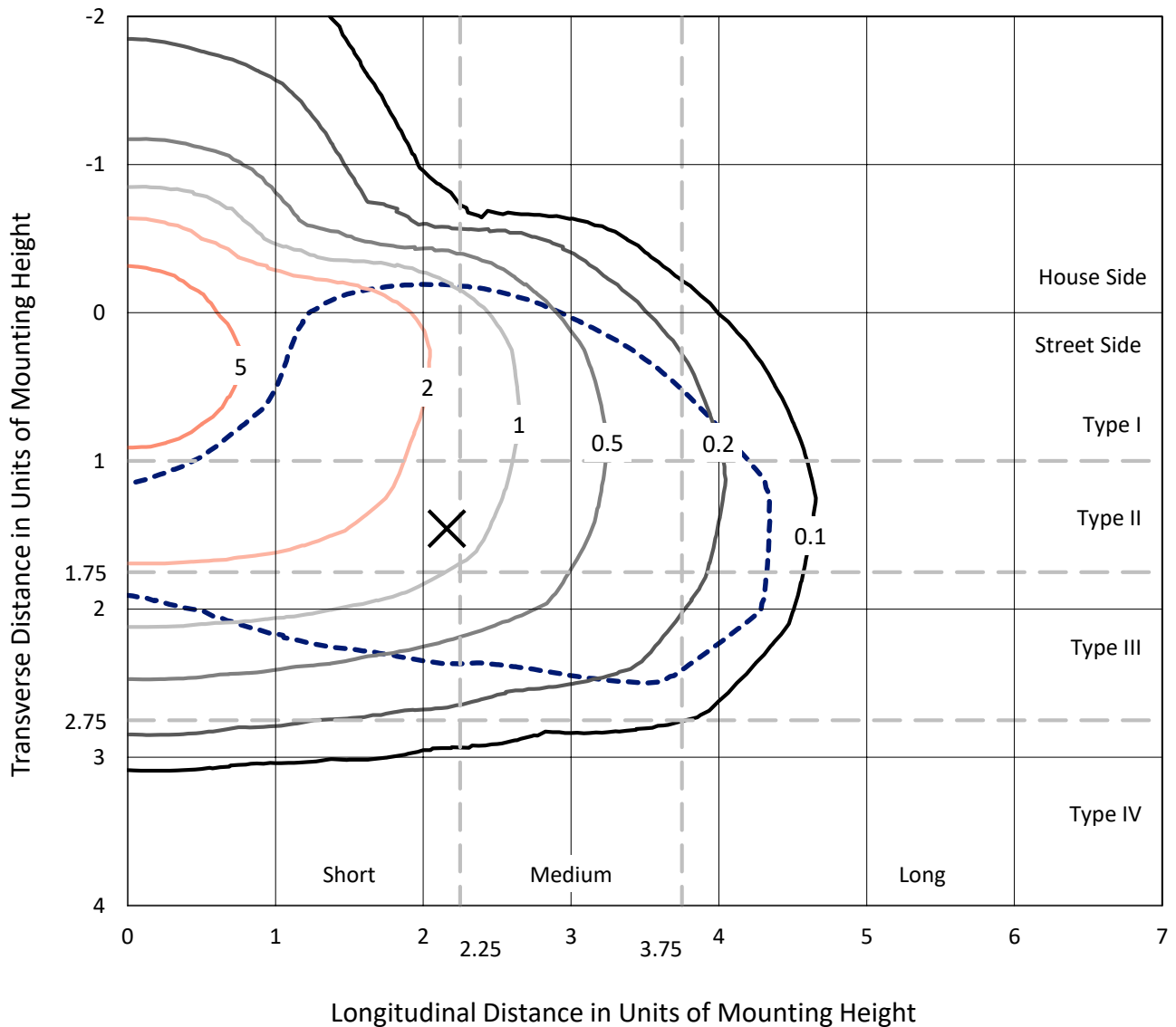
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

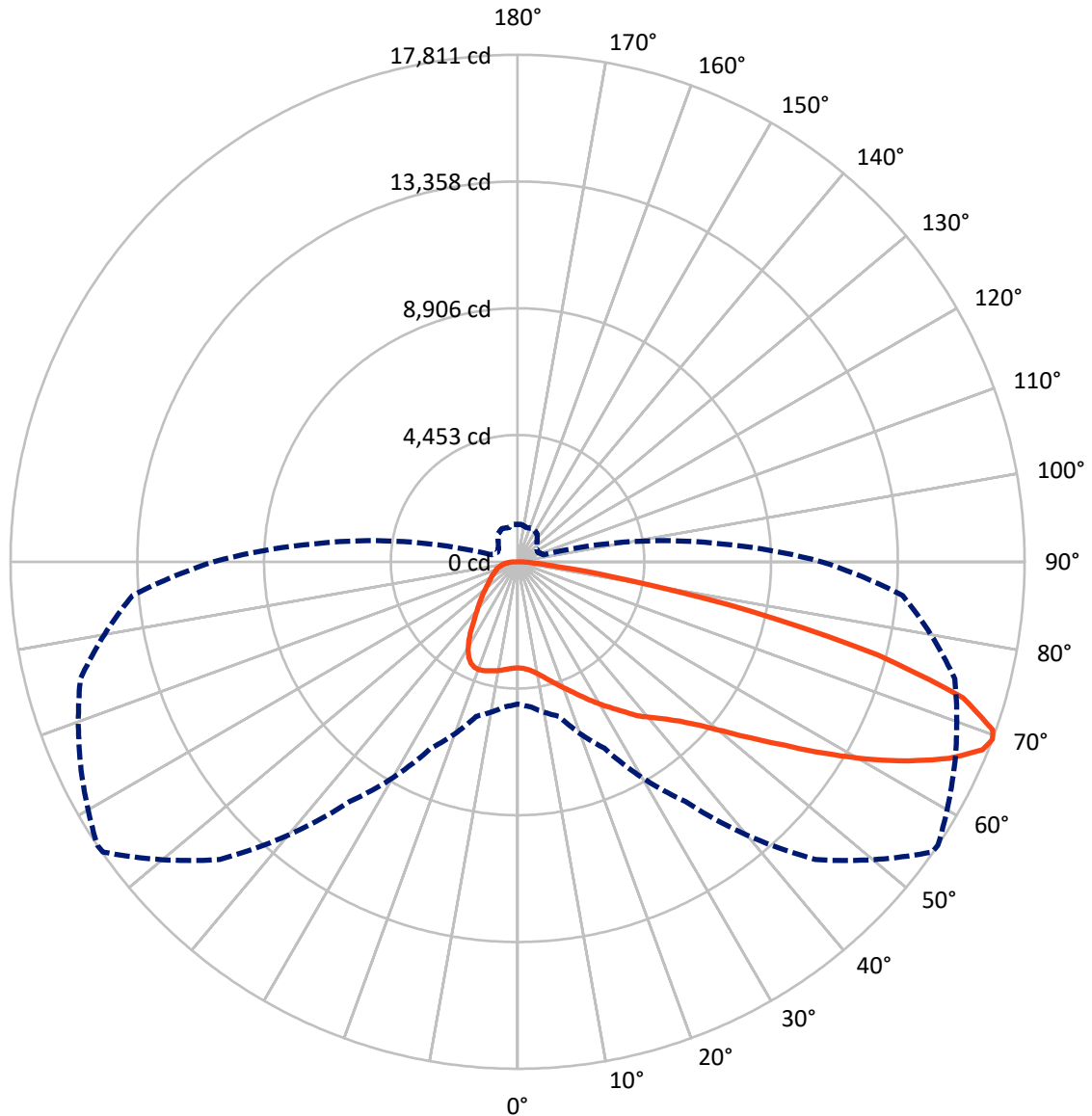
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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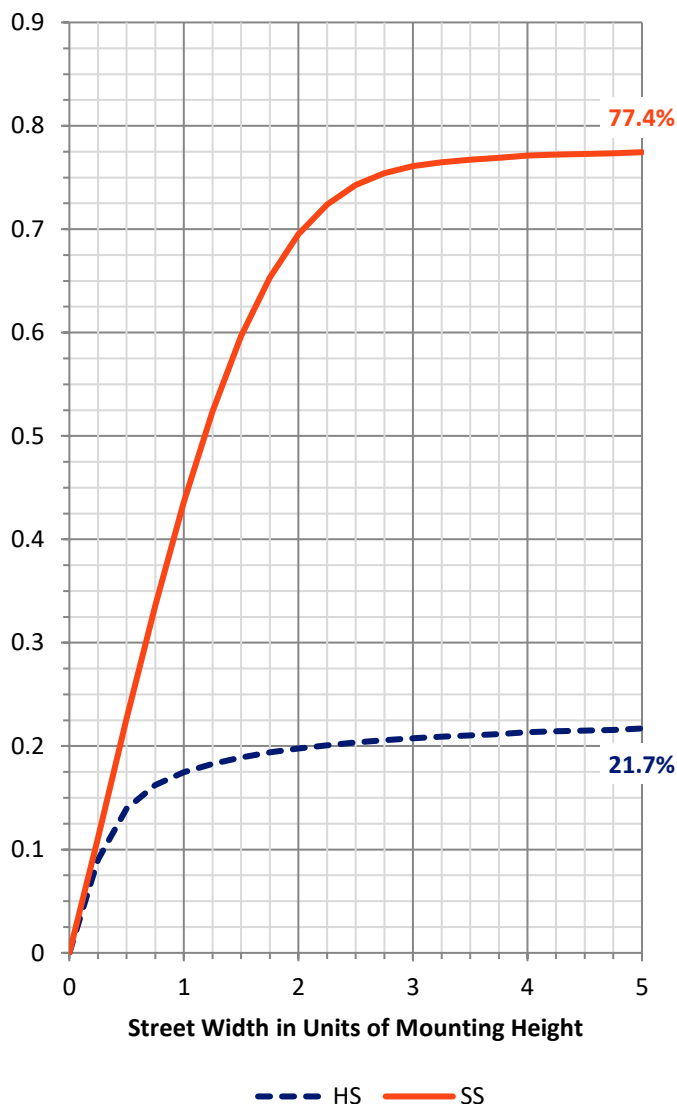
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6349.8	0.0	6349.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	22163.2	0.0	22163.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	28513.0	0.0	28513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.1	1.3
10°-20°	1177.3	4.1
20°-30°	2055.1	7.2
30°-40°	2952.0	10.4
40°-50°	4085.5	14.3
50°-60°	5985.8	21.0
60°-70°	7297.8	25.6
70°-80°	4034.7	14.2
80°-90°	558.8	2.0
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°	28513.0	100.0
0°-180°	28513.0	100.0

**Coefficient of Utilization**



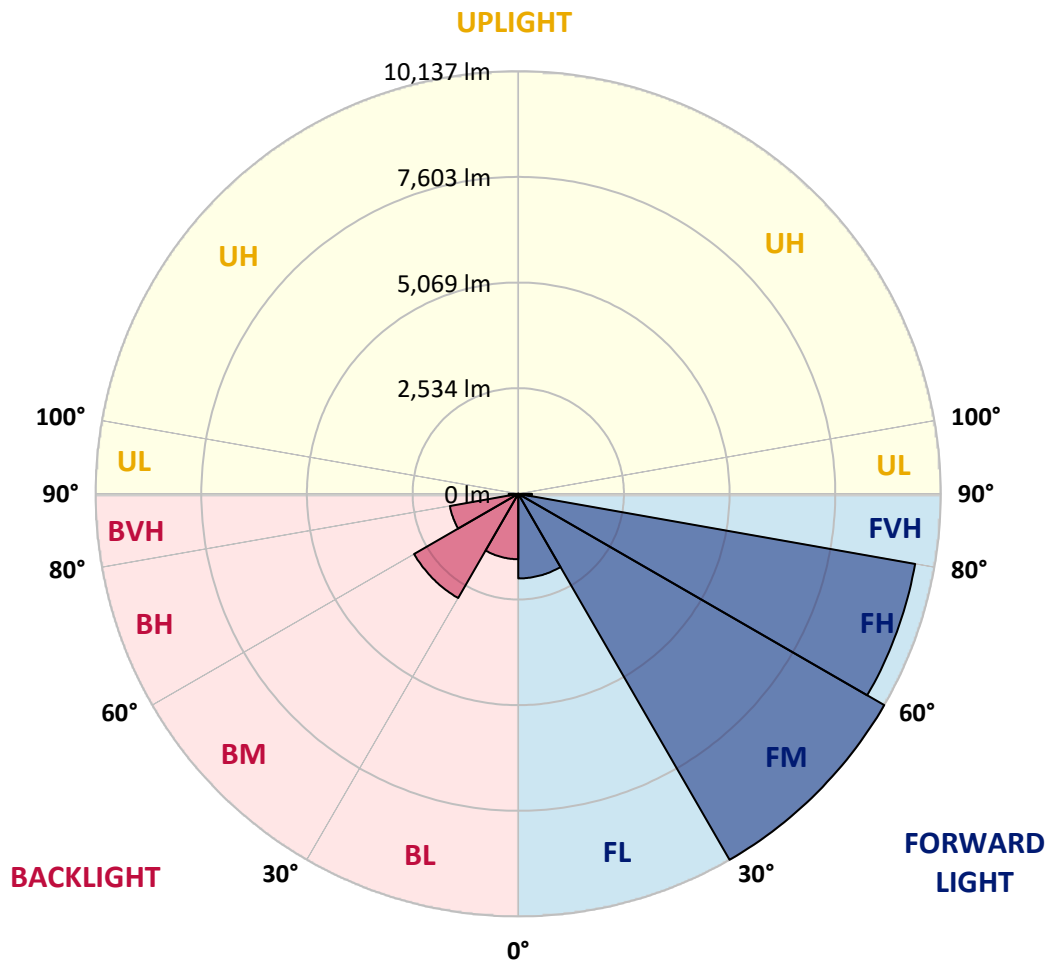
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.3	7.1			
FM (30°-60°)	10137.4	35.6			
FH (60°-80°)	9667.3	33.9			G4/12000
FVH (80°-90°)	329.1	1.2			G3/500
BL (0°-30°)	1569.2	5.5	B3/2500		
BM (30°-60°)	2885.8	10.1	B3/5000		
BH (60°-80°)	1665.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	229.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6
2.5°	3751.2	3755.1	3752.2	3760.1	3751.2	3757.1	3752.2	3752.2	3749.3	3740.4	3730.6
5°	3810.2	3818.0	3813.1	3821.0	3810.2	3812.1	3803.3	3803.3	3794.4	3775.8	3756.1
7.5°	3902.5	3911.3	3907.4	3915.3	3900.5	3900.5	3888.7	3887.8	3870.1	3839.6	3817.0
10°	4012.5	4024.3	4020.4	4032.1	4020.4	4024.3	4012.5	4012.5	3988.9	3945.7	3917.2
12.5°	4172.6	4187.3	4176.5	4175.6	4170.6	4178.5	4168.7	4166.7	4145.1	4086.2	4046.9
15°	4386.7	4402.5	4379.9	4377.9	4350.4	4347.4	4347.4	4344.5	4330.7	4260.0	4195.2
17.5°	4633.3	4638.2	4618.5	4587.1	4551.8	4529.2	4526.2	4534.1	4534.1	4451.6	4348.4
20°	4874.9	4883.8	4868.0	4832.7	4787.5	4754.1	4730.5	4746.2	4745.3	4647.0	4500.7
22.5°	5138.2	5158.8	5135.2	5090.0	5037.0	4999.7	4958.4	4972.2	4973.1	4852.3	4650.0
25°	5479.0	5460.3	5445.6	5381.8	5306.1	5267.8	5229.5	5243.3	5239.3	5073.3	4804.2
27.5°	5780.6	5784.5	5764.8	5697.1	5609.6	5525.2	5523.2	5532.0	5517.3	5303.2	4949.6
30°	6131.2	6133.2	6105.7	6044.8	5949.5	5840.5	5814.9	5829.7	5798.2	5521.2	5102.8
32.5°	6479.9	6489.7	6459.3	6385.6	6309.0	6176.4	6125.3	6135.1	6056.6	5744.2	5260.9
35°	6785.4	6799.1	6789.3	6740.2	6656.7	6542.8	6481.9	6476.0	6378.7	6017.3	5470.2
37.5°	7096.8	7109.5	7098.7	7057.5	7024.1	6903.3	6870.9	6870.9	6701.9	6296.2	5736.4
40°	7417.0	7436.6	7423.9	7366.9	7338.4	7283.4	7205.8	7187.1	7004.4	6631.2	6170.5
42.5°	7714.6	7740.1	7791.2	7757.8	7699.9	7707.7	7551.6	7541.7	7408.1	7126.2	6715.7
45°	8137.0	8174.3	8260.7	8235.2	8223.4	8180.2	7994.5	7985.7	7934.6	7792.2	7392.4
47.5°	8597.6	8648.7	8804.9	8809.8	8936.5	8855.0	8602.6	8572.1	8583.9	8589.8	8218.5
50°	9022.0	9078.0	9334.3	9455.2	9753.8	9771.4	9367.7	9340.2	9386.4	9521.9	9181.1
52.5°	9360.9	9431.6	9751.8	10125.1	10636.8	10782.2	10309.7	10289.1	10323.5	10557.2	10269.4
55°	9609.4	9686.0	10034.7	10714.4	11531.6	11788.0	11394.1	11374.5	11396.1	11693.7	11453.1
57.5°	9667.3	9686.0	10191.8	11111.2	12287.0	12902.9	12721.1	12681.9	12575.8	12835.1	12759.5
60°	9395.2	9469.9	10062.2	11250.7	12871.4	14002.0	14108.1	14059.0	13761.3	13973.5	13912.6
62.5°	8843.2	8976.8	9577.9	11038.5	13100.3	14899.8	15468.5	15409.6	14896.8	15034.3	14741.6
65°	7941.5	7998.5	8630.1	10306.8	12809.5	15474.4	16681.6	16652.1	16006.8	15791.7	14894.9
67.5°	6328.6	6435.7	6972.0	8777.4	11620.0	15406.6	17619.6	17616.7	16731.7	16072.6	14351.7
69°	4999.7	5110.7	5621.4	7230.4	10282.2	14786.8	17776.8	17811.2	16936.0	15901.7	13575.7
70°	3986.0	4114.7	4465.3	6090.0	9094.7	13969.6	17646.2	17708.0	16896.7	15619.8	12859.6
72.5°	1696.3	1800.5	2050.0	3139.3	5542.8	10431.5	16134.5	16368.2	15986.1	14295.7	10628.0
75°	740.6	773.0	886.0	1279.9	2460.5	5677.4	12639.6	13071.8	13669.0	12083.7	7916.9
77.5°	542.2	556.0	617.8	751.4	1104.1	2144.3	8128.1	8379.6	9857.9	8793.1	4856.3
80°	419.4	429.2	477.4	552.0	721.0	867.3	3707.0	3923.1	5542.8	4516.4	2022.5
82.5°	334.0	340.8	374.2	406.7	498.0	525.5	1230.8	1365.3	2046.0	1247.5	535.3
85°	310.4	318.2	330.0	296.6	319.2	308.4	532.4	556.9	617.8	490.1	224.0
87.5°	140.5	166.0	327.1	230.8	169.9	135.6	218.1	227.9	256.4	257.3	99.2
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°	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6	3727.6
2.5°	3736.5	3733.5	3738.5	3726.7	3741.4	3740.4	3735.5	3737.5	3747.3	3746.3	3747.3
5°	3759.1	3757.1	3763.0	3754.2	3771.8	3777.7	3778.7	3787.6	3798.4	3801.3	3801.3
7.5°	3816.0	3816.0	3819.0	3807.2	3819.0	3818.0	3813.1	3821.9	3832.7	3833.7	3832.7
10°	3914.3	3915.3	3910.3	3879.9	3870.1	3843.6	3819.0	3820.0	3833.7	3844.5	3847.5
12.5°	4038.0	4034.1	4012.5	3956.5	3915.3	3861.2	3835.7	3834.7	3848.5	3857.3	3860.2
15°	4179.5	4168.7	4112.7	4021.3	3948.7	3895.6	3854.4	3844.5	3836.7	3826.9	3827.8
17.5°	4313.1	4288.5	4195.2	4068.5	3991.9	3921.1	3841.6	3777.7	3733.5	3708.0	3700.1
20°	4448.6	4400.5	4265.9	4112.7	4015.4	3886.8	3733.5	3603.9	3523.3	3486.0	3479.1
22.5°	4572.4	4494.8	4331.7	4158.9	3996.8	3770.9	3530.2	3341.6	3229.6	3179.5	3183.5
25°	4693.2	4585.2	4400.5	4191.3	3902.5	3566.6	3247.3	3015.5	2885.9	2829.9	2827.9
27.5°	4799.3	4676.5	4475.1	4164.7	3726.7	3275.8	2912.4	2686.5	2578.4	2530.3	2522.4
30°	4921.1	4791.4	4574.3	4063.6	3469.3	2939.9	2585.3	2426.2	2349.5	2301.4	2292.6
32.5°	5069.4	4947.6	4655.9	3879.9	3140.3	2589.2	2329.9	2218.9	2149.2	2095.1	2085.3
35°	5285.5	5153.9	4676.5	3616.7	2778.8	2312.2	2142.3	2028.3	1934.1	1864.3	1857.4
37.5°	5556.6	5412.2	4629.4	3275.8	2428.1	2132.5	1986.1	1845.7	1722.9	1624.6	1608.9
40°	5947.5	5729.5	4498.7	2882.9	2169.8	1994.0	1833.9	1673.8	1521.5	1406.6	1384.0
42.5°	6417.1	6101.7	4298.3	2492.0	1980.2	1853.5	1682.6	1484.2	1338.8	1257.3	1245.5
45°	7014.3	6488.8	4020.4	2150.1	1793.6	1713.0	1519.5	1336.8	1246.5	1186.6	1176.7
47.5°	7695.9	6922.9	3728.6	1872.2	1635.4	1581.4	1388.9	1271.0	1199.3	1152.2	1143.3
50°	8533.8	7413.1	3419.2	1644.3	1476.3	1423.3	1327.0	1234.7	1177.7	1141.4	1132.5
52.5°	9478.7	7966.1	3196.2	1464.5	1344.7	1306.4	1294.6	1215.0	1168.9	1141.4	1132.5
55°	10496.3	8528.9	2955.6	1313.3	1230.8	1241.6	1273.0	1217.0	1185.6	1152.2	1139.4
57.5°	11514.9	9110.4	2687.4	1185.6	1140.4	1193.4	1258.3	1220.9	1194.4	1162.0	1150.2
60°	12320.4	9478.7	2271.9	1078.5	1068.7	1140.4	1222.9	1191.5	1157.1	1158.1	1156.1
62.5°	12696.6	9459.1	1813.2	983.2	997.0	1068.7	1165.9	1145.3	1116.8	1155.1	1158.1
65°	12485.4	8987.6	1411.5	896.8	920.4	994.0	1107.0	1122.7	1132.5	1206.2	1216.0
67.5°	11599.4	8070.2	1093.2	821.2	850.6	943.0	1112.9	1222.9	1235.7	1313.3	1312.3
69°	10683.0	7209.7	949.8	781.9	816.3	955.7	1189.5	1286.7	1238.6	1321.1	1309.3
70°	9914.8	6529.0	873.2	755.4	800.5	978.3	1240.6	1285.8	1223.9	1294.6	1275.0
72.5°	7636.0	4697.1	740.6	706.2	747.5	936.1	1255.3	1257.3	1189.5	1203.3	1169.9
75°	5237.4	2968.4	646.3	639.4	666.9	843.8	1208.2	1201.3	1100.1	1080.5	1053.0
77.5°	2887.8	1507.8	549.1	575.6	594.3	747.5	1098.2	1088.3	1004.8	963.6	953.8
80°	1113.9	660.1	463.6	511.8	523.5	647.3	962.6	953.8	884.0	831.0	816.3
82.5°	420.4	345.8	383.1	443.0	439.1	534.3	815.3	810.4	742.6	665.0	641.4
85°	194.5	207.3	303.5	365.4	336.9	395.8	652.2	661.1	578.5	486.2	486.2
87.5°	82.5	115.9	215.1	276.0	226.9	267.2	478.4	456.7	419.4	290.7	273.1
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)