

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: P383041

Luminaire Tested: **GLEON-SA3D-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3D-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22562.1 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

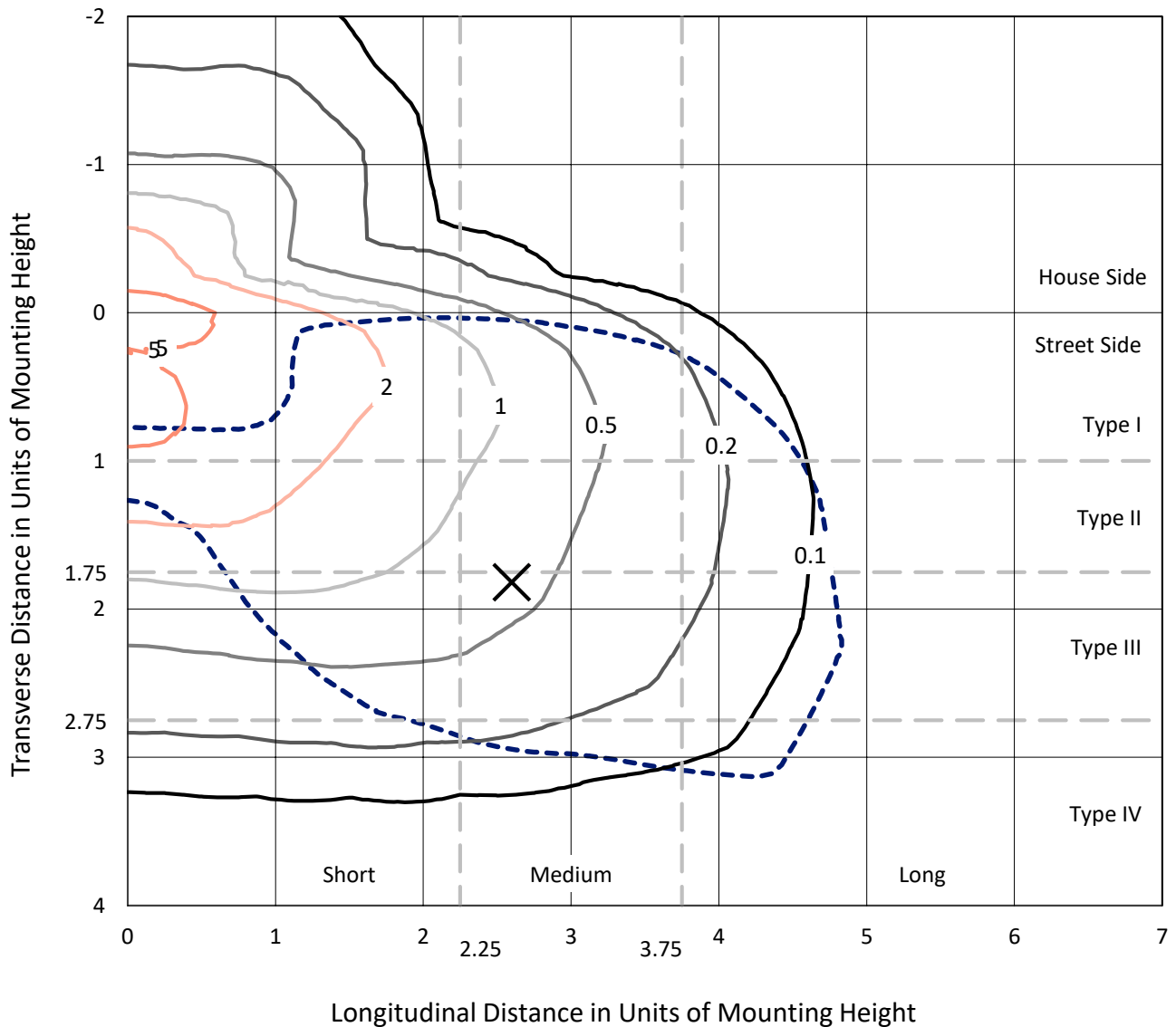
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383041  
 CATALOG NUMBER: GLEON-SA3D-735-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

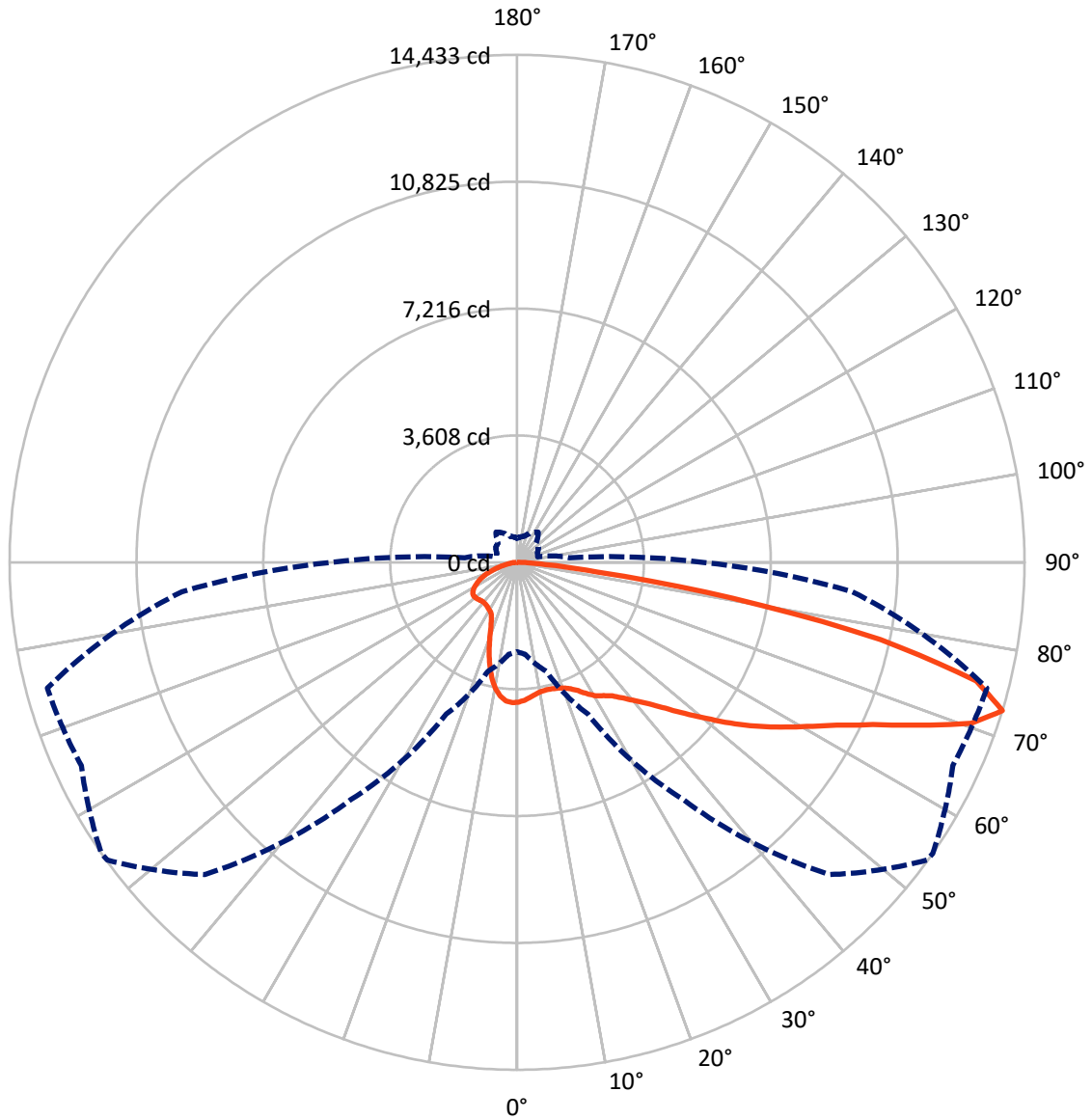
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P383041  
CATALOG NUMBER: GLEON-SA3D-735-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P383041  
 CATALOG NUMBER: GLEON-SA3D-735-U-T3R

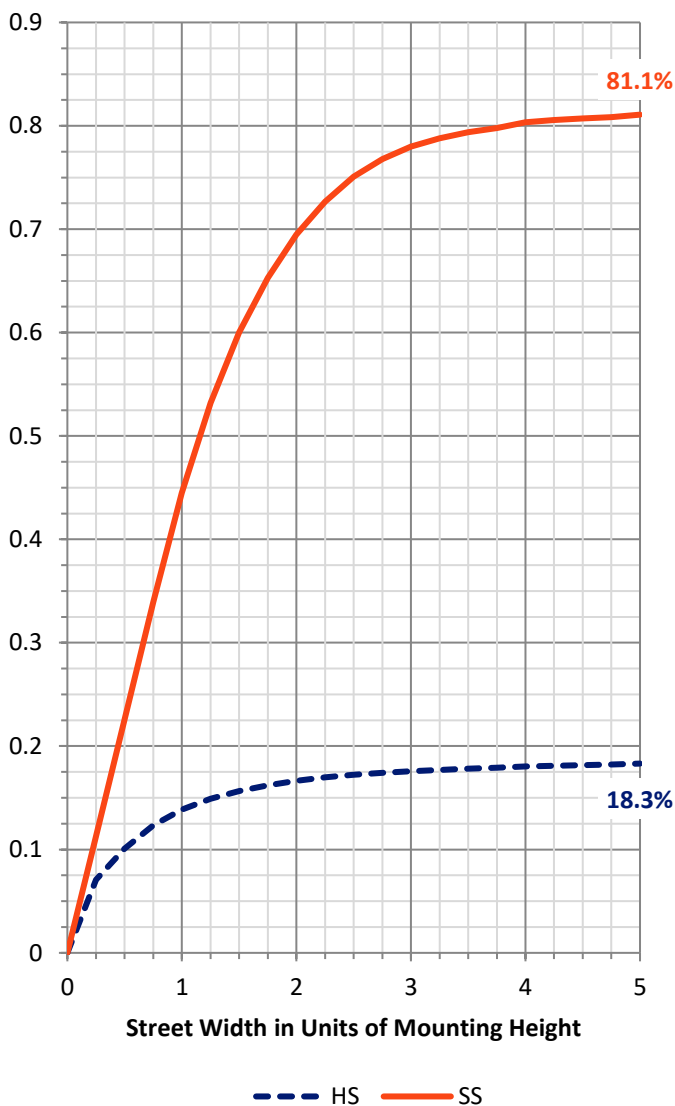
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4193.5	0.0	4193.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	18368.5	0.0	18368.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	22562.1	0.0	22562.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.1	1.6
10°-20°	958.7	4.2
20°-30°	1580.7	7.0
30°-40°	2338.2	10.4
40°-50°	3263.6	14.5
50°-60°	4249.4	18.8
60°-70°	5222.3	23.1
70°-80°	4093.7	18.1
80°-90°	495.4	2.2
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°	22562.1	100.0
0°-180°	22562.1	100.0

**Coefficient of Utilization**

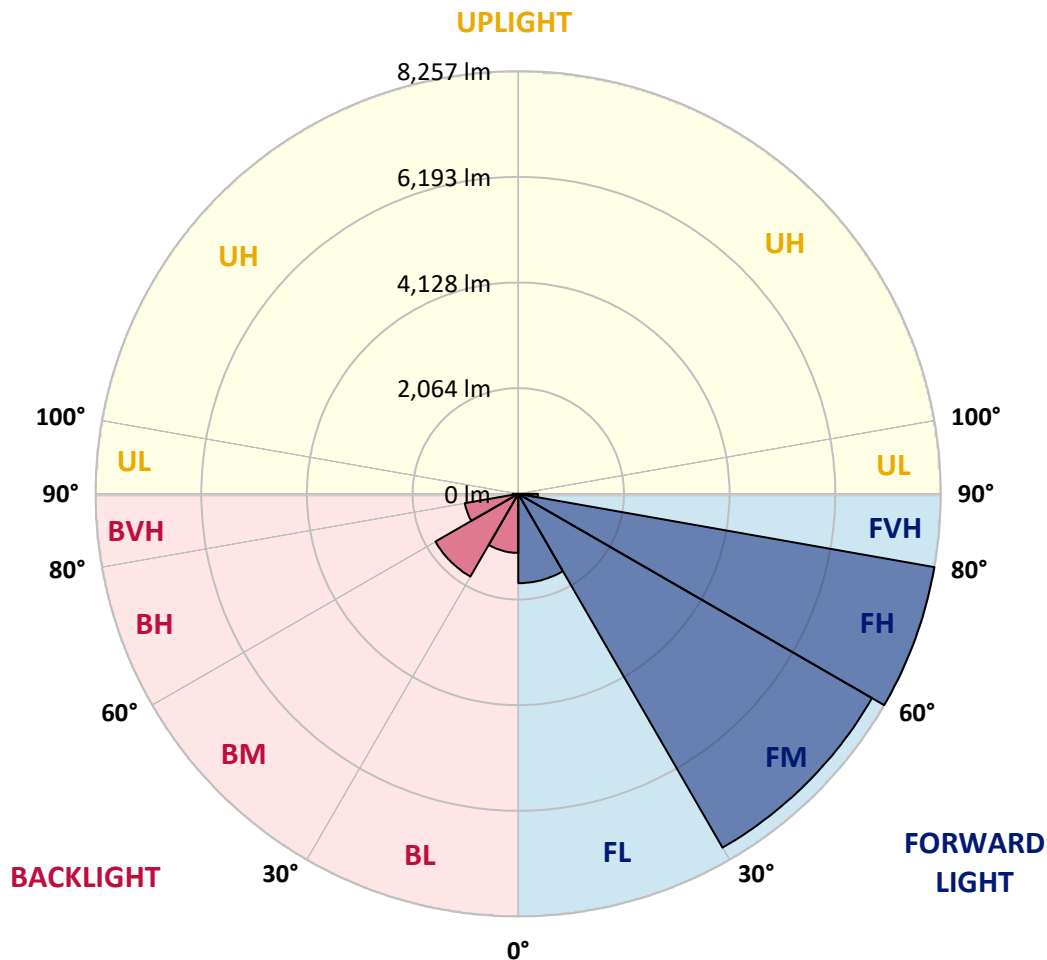


REPORT NUMBER: P383041  
 CATALOG NUMBER: GLEON-SA3D-735-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.6	7.7			
FM (30°-60°)	7982.9	35.4			
FH (60°-80°)	8257.0	36.6			G4/12000
FVH (80°-90°)	383.0	1.7			G3/500
BL (0°-30°)	1153.8	5.1	B3/2500		
BM (30°-60°)	1868.3	8.3	B2/2500		
BH (60°-80°)	1059.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	112.4	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-G4**  
 Type IV Medium





REPORT NUMBER: P383041  
 CATALOG NUMBER: GLEON-SA3D-735-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5
2.5°	3849.9	3840.8	3852.2	3868.3	3885.8	3909.3	3923.1	3929.2	3952.8	3962.0	3981.7
5°	3671.6	3667.0	3686.0	3713.5	3752.4	3807.2	3851.5	3859.9	3922.3	3966.5	4006.9
7.5°	3542.0	3542.0	3564.1	3596.9	3640.4	3714.3	3776.8	3788.2	3894.1	3989.4	4064.1
10°	3439.2	3443.0	3468.9	3507.7	3558.8	3637.3	3720.3	3733.4	3886.5	4042.7	4161.6
12.5°	3370.6	3379.7	3403.3	3438.4	3501.7	3596.9	3702.1	3719.6	3902.5	4118.9	4279.0
15°	3414.0	3429.3	3431.5	3446.0	3481.1	3584.7	3712.8	3731.0	3936.8	4196.6	4412.3
17.5°	3604.5	3609.8	3586.3	3555.7	3539.0	3605.3	3744.7	3763.8	3978.0	4273.7	4540.4
20°	3894.1	3891.1	3840.0	3757.7	3672.3	3683.1	3797.4	3817.1	4033.6	4341.5	4668.4
22.5°	4259.9	4249.3	4170.7	4019.1	3873.6	3812.5	3889.6	3906.4	4117.4	4438.3	4805.6
25°	4703.4	4679.8	4576.1	4372.7	4158.5	4001.6	4028.2	4044.2	4239.3	4546.4	4931.2
27.5°	5171.3	5147.7	5015.8	4769.7	4484.7	4240.1	4219.5	4233.2	4378.0	4626.4	5024.2
30°	5660.5	5635.4	5515.0	5239.1	4830.7	4487.0	4397.8	4403.1	4475.5	4669.8	5100.4
32.5°	6152.1	6128.5	5993.6	5673.5	5206.4	4752.2	4526.7	4519.8	4534.2	4714.8	5186.6
35°	6650.5	6659.6	6501.9	6147.6	5622.4	5047.1	4679.1	4664.5	4632.6	4807.1	5308.5
37.5°	7183.9	7177.9	6973.6	6603.3	6057.6	5367.2	4897.7	4895.5	4785.0	4981.5	5499.8
40°	7540.6	7544.4	7420.1	7069.6	6497.3	5721.6	5178.2	5172.9	5028.0	5242.9	5750.4
42.5°	7680.1	7705.2	7737.2	7514.6	6957.5	6132.3	5512.7	5505.1	5367.2	5617.9	6045.4
45°	7689.9	7740.2	7938.4	7910.1	7424.0	6602.4	5940.2	5918.9	5819.8	6116.3	6397.5
47.5°	7604.6	7656.4	7985.6	8145.6	7840.8	7098.6	6440.2	6423.4	6338.1	6739.7	6778.5
50°	7417.9	7467.4	7888.1	8260.7	8183.7	7575.6	7016.2	6972.1	6926.3	7459.7	7214.4
52.5°	7068.1	7163.3	7757.7	8288.2	8388.8	7999.3	7622.1	7593.1	7618.3	8219.5	7651.1
55°	6239.7	6346.4	7421.6	8265.2	8540.4	8355.2	8227.9	8226.4	8356.7	9016.6	8119.7
57.5°	5775.6	5851.1	6737.3	8226.4	8720.2	8708.8	8827.7	8842.2	9095.9	9884.7	8610.5
60°	5513.5	5592.7	6390.6	8082.4	8999.1	9166.1	9439.7	9468.5	9847.3	10845.6	9201.1
62.5°	5275.0	5361.8	6175.7	7788.9	9327.6	9819.9	10172.7	10198.6	10642.9	11833.3	9771.8
65°	4867.2	4965.6	5861.0	7596.2	9626.3	10672.6	11104.7	11122.2	11556.6	12868.1	10208.6
67.5°	4291.2	4381.1	5267.3	7170.2	9847.3	11708.2	12343.8	12353.7	12462.7	13598.9	10431.8
70°	3618.2	3652.5	4421.5	6290.7	9585.9	12676.9	13701.8	13704.1	13288.8	14066.8	10395.2
72.5°	2542.2	2623.0	3209.8	4762.1	8237.9	12558.8	14406.7	14432.7	13672.9	13830.6	9564.6
75°	1559.1	1644.6	2013.4	2885.9	5226.2	9877.0	13310.9	13490.7	12952.7	12331.6	7813.4
77.5°	1042.5	1074.5	1313.8	1682.7	2367.7	5682.6	10233.7	10572.0	10760.2	8993.1	4996.8
80°	581.5	642.4	871.0	1045.6	1053.2	2258.0	6136.1	6215.4	5986.7	3580.9	1541.6
82.5°	307.9	341.4	581.5	614.3	574.6	756.0	2286.9	2289.2	1912.7	960.2	458.0
85°	238.6	266.7	398.5	374.9	293.4	335.3	754.5	795.6	650.8	393.2	149.3
87.5°	118.9	147.8	270.5	237.7	115.0	96.0	269.8	288.0	256.8	153.9	54.1
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: P383041  
 CATALOG NUMBER: GLEON-SA3D-735-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5
2.5°	3989.4	3996.2	4004.6	3995.5	3992.4	3980.2	3959.6	3955.1	3944.5	3945.2	3951.3
5°	4024.5	4035.8	4031.3	3996.2	3954.3	3895.6	3834.7	3782.8	3748.5	3746.3	3744.0
7.5°	4091.5	4099.1	4063.3	3963.5	3846.1	3710.4	3582.5	3470.4	3402.6	3385.8	3382.0
10°	4196.6	4195.1	4096.9	3895.6	3661.7	3419.3	3213.6	3058.2	2967.4	2940.8	2933.9
12.5°	4314.0	4296.5	4108.2	3772.2	3401.1	3065.0	2804.3	2631.3	2536.9	2506.4	2498.8
15°	4435.2	4391.8	4080.1	3587.8	3081.0	2683.2	2409.6	2249.6	2198.5	2181.8	2178.7
17.5°	4548.0	4464.2	3999.3	3337.8	2716.0	2303.0	2089.6	2025.6	2037.8	2059.8	2060.6
20°	4658.5	4512.9	3869.7	3022.3	2331.1	1989.7	1917.3	1964.5	2022.5	2067.5	2073.5
22.5°	4767.5	4547.2	3702.8	2658.1	1986.7	1813.7	1864.8	1950.8	2017.2	2065.9	2074.3
25°	4858.9	4555.5	3472.7	2269.4	1747.4	1747.4	1839.6	1921.1	1986.7	2034.7	2043.1
27.5°	4892.4	4499.2	3148.1	1909.7	1626.9	1716.9	1804.6	1872.4	1928.0	1979.1	1988.2
30°	4905.3	4394.8	2773.1	1620.9	1577.5	1684.1	1757.3	1815.2	1867.8	1915.8	1924.2
32.5°	4907.7	4269.0	2375.4	1457.0	1543.2	1649.9	1698.6	1749.7	1806.1	1825.1	1828.2
35°	4922.1	4120.4	1956.2	1373.2	1511.2	1617.8	1656.8	1693.3	1601.9	1608.7	1614.8
37.5°	4964.0	3973.3	1605.6	1326.0	1490.6	1601.1	1647.5	1515.0	1443.3	1426.6	1424.2
40°	5042.6	3816.4	1345.8	1287.9	1482.9	1609.4	1588.8	1414.4	1290.9	1198.7	1185.0
42.5°	5151.6	3647.2	1179.7	1262.7	1488.3	1649.9	1507.3	1317.6	1112.6	1053.2	1045.6
45°	5274.2	3469.6	1089.7	1245.2	1506.6	1681.1	1490.6	1188.8	1029.5	984.6	980.7
47.5°	5393.1	3252.5	1043.2	1237.6	1531.7	1655.9	1419.7	1149.2	990.0	966.3	968.5
50°	5529.5	3056.6	1015.1	1229.2	1553.8	1640.0	1339.7	1128.6	974.7	1003.6	1034.1
52.5°	5644.5	2853.9	990.0	1212.4	1562.2	1611.8	1319.2	1132.4	974.7	1030.3	1059.3
55°	5781.0	2700.7	961.0	1177.4	1546.2	1531.7	1304.6	1155.3	986.1	951.0	954.1
57.5°	5957.0	2650.4	928.9	1122.5	1492.9	1415.1	1297.7	1177.4	979.2	957.2	964.8
60°	6200.8	2703.8	916.0	1050.9	1409.8	1323.7	1298.6	1165.9	931.3	893.2	893.9
62.5°	6433.3	2763.2	915.2	1005.9	1307.7	1242.1	1281.1	1128.6	906.9	884.8	893.2
65°	6509.5	2703.0	878.6	955.6	1192.7	1144.6	1249.0	1089.0	888.6	855.1	853.5
67.5°	6407.4	2516.3	804.8	874.1	1060.8	1031.0	1207.1	1041.7	859.6	832.2	827.6
70°	6104.1	2099.4	713.3	766.7	910.7	903.0	1140.8	986.9	820.7	797.1	777.3
72.5°	5287.9	1495.9	601.2	637.8	741.5	765.8	1049.4	915.2	765.8	714.8	684.3
75°	4343.0	1107.2	493.8	501.5	563.1	629.4	923.6	831.4	701.1	614.3	590.6
77.5°	2659.6	677.5	393.2	396.3	403.9	502.2	760.5	737.7	618.8	512.1	495.3
80°	861.1	369.6	284.2	298.7	275.8	368.1	588.3	628.0	531.2	428.2	410.0
82.5°	327.7	215.7	192.1	202.0	191.2	247.0	429.1	502.9	435.1	352.0	286.5
85°	158.5	121.9	113.6	127.2	118.1	126.5	274.3	370.4	330.0	229.3	213.4
87.5°	56.4	54.1	43.4	58.7	50.3	45.0	83.8	186.7	218.0	157.7	140.9
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)