

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: P318529

Luminaire Tested: **GLEON-SA5C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318529
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-SA5C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25992 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

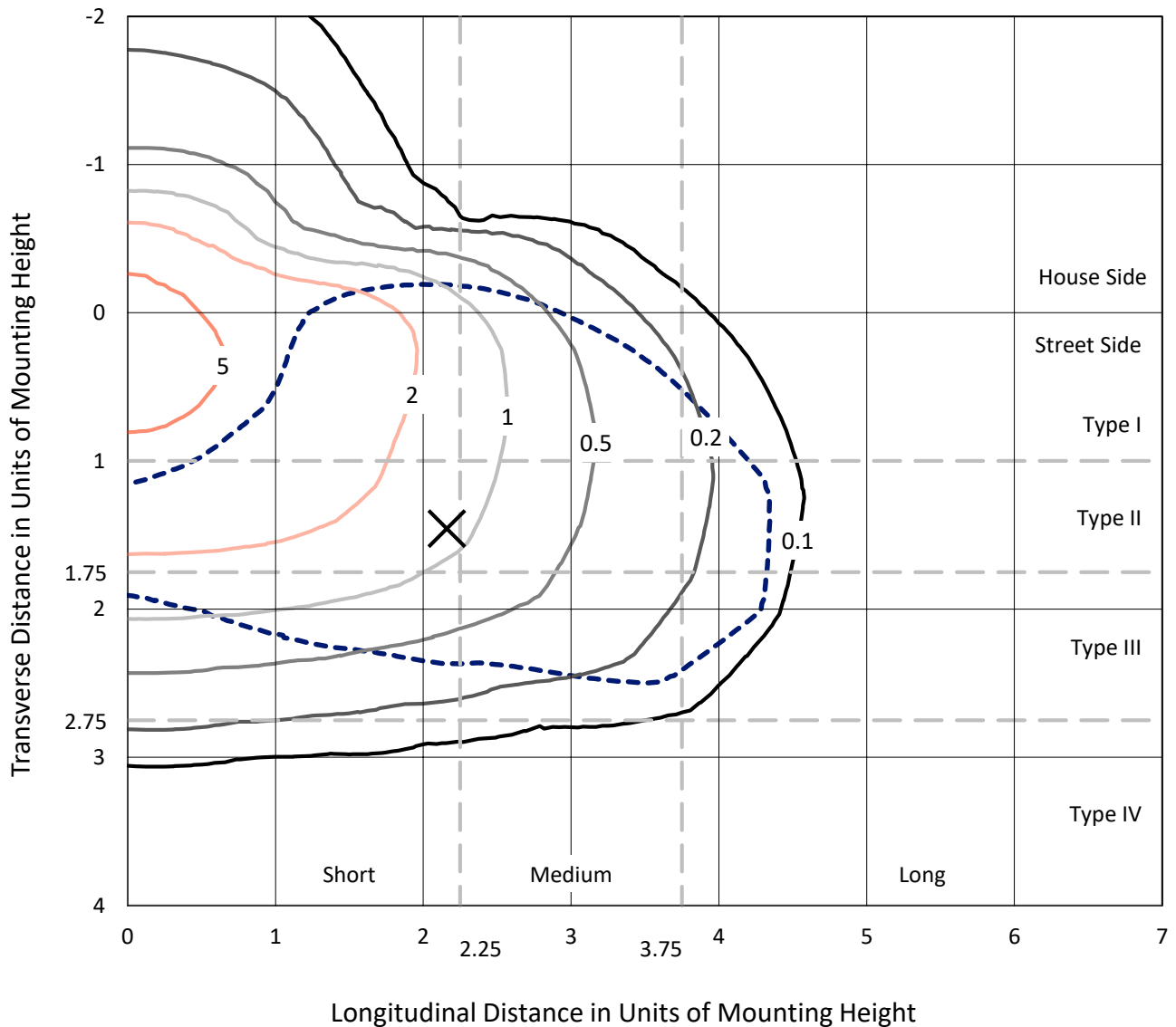
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318529
 CATALOG NUMBER: GLEON-SA5C-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

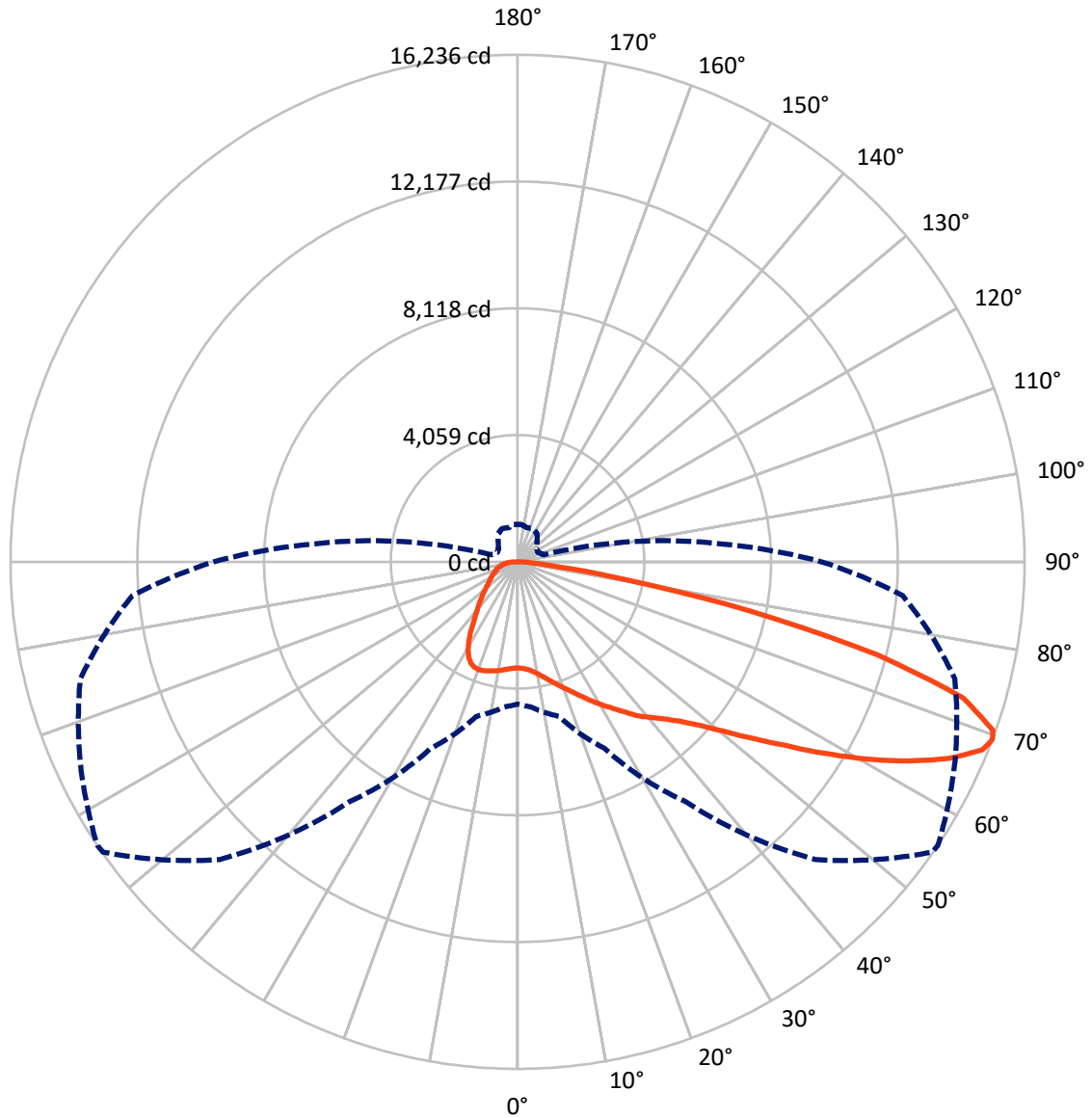
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P318529
CATALOG NUMBER: GLEON-SA5C-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P318529
 CATALOG NUMBER: GLEON-SA5C-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5788.4	0.0	5788.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20203.6	0.0	20203.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	25992.0	0.0	25992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.3
10°-20°	1073.2	4.1
20°-30°	1873.4	7.2
30°-40°	2691.0	10.4
40°-50°	3724.2	14.3
50°-60°	5456.5	21.0
60°-70°	6652.5	25.6
70°-80°	3678.0	14.2
80°-90°	509.4	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°	25992.0	100.0
0°-180°	25992.0	100.0

Coefficient of Utilization



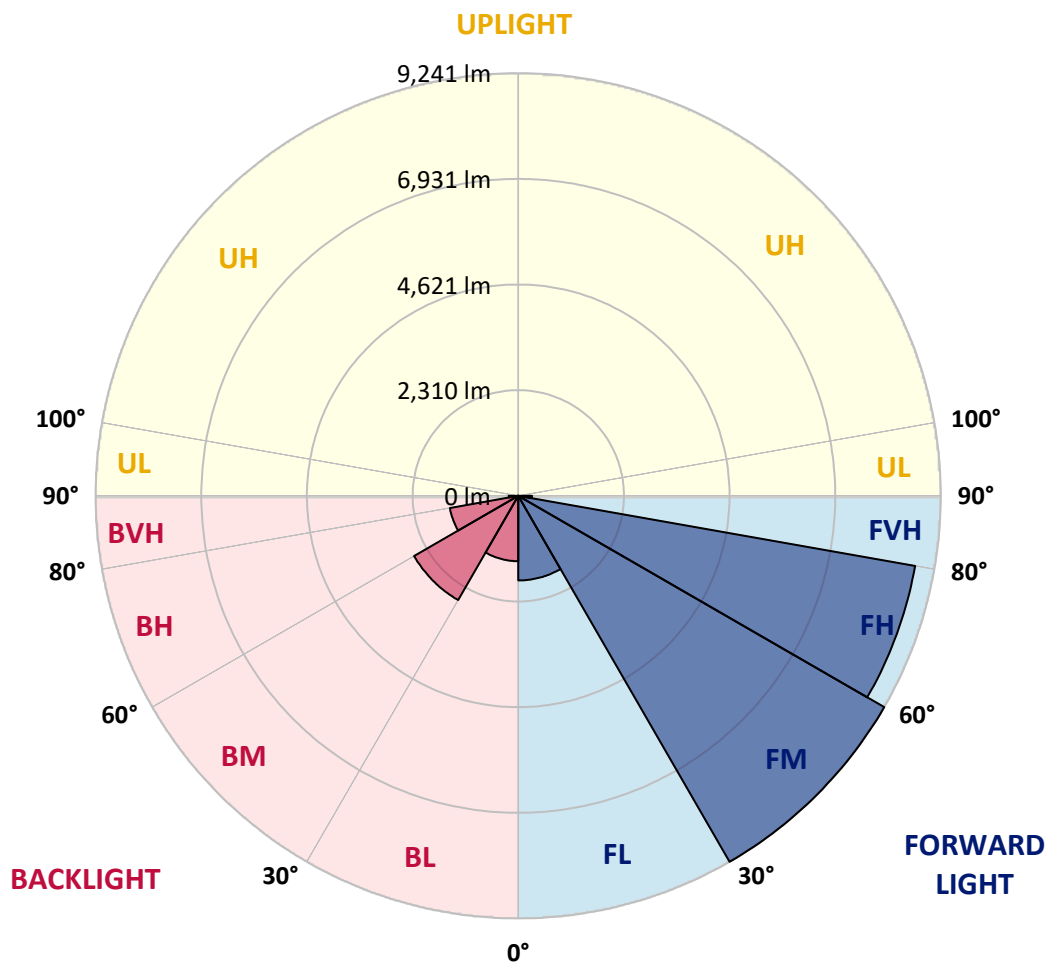
REPORT NUMBER: P318529
 CATALOG NUMBER: GLEON-SA5C-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.9	7.1			
FM (30°-60°)	9241.1	35.6			
FH (60°-80°)	8812.6	33.9			G4/12000
FVH (80°-90°)	300.1	1.2			G3/500
BL (0°-30°)	1430.4	5.5	B3/2500		
BM (30°-60°)	2630.7	10.1	B3/5000		
BH (60°-80°)	1517.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	209.3	0.8			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 III Short





REPORT NUMBER: P318529

CATALOG NUMBER: GLEON-SA5C-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1
2.5°	3419.6	3423.1	3420.4	3427.6	3419.6	3424.9	3420.4	3420.4	3417.8	3409.7	3400.7
5°	3473.3	3480.4	3476.0	3483.1	3473.3	3475.1	3467.0	3467.0	3459.0	3441.9	3424.0
7.5°	3557.4	3565.5	3561.9	3569.1	3555.7	3555.7	3544.9	3544.0	3527.9	3500.1	3479.5
10°	3657.7	3668.5	3664.9	3675.6	3664.9	3668.5	3657.7	3657.7	3636.2	3596.8	3570.9
12.5°	3803.7	3817.1	3807.3	3806.4	3801.9	3809.1	3800.1	3798.3	3778.6	3724.9	3689.1
15°	3998.9	4013.2	3992.6	3990.8	3965.7	3963.1	3963.1	3960.4	3947.8	3883.4	3824.3
17.5°	4223.6	4228.1	4210.2	4181.5	4149.3	4128.7	4126.0	4133.2	4133.2	4058.0	3964.0
20°	4443.9	4452.0	4437.6	4405.4	4364.2	4333.8	4312.3	4326.6	4325.7	4236.2	4102.7
22.5°	4683.9	4702.7	4681.2	4640.0	4591.6	4557.6	4520.0	4532.5	4533.4	4423.3	4238.8
25°	4994.6	4977.6	4964.1	4905.9	4837.0	4802.1	4767.1	4779.7	4776.1	4624.8	4379.4
27.5°	5269.5	5273.0	5255.1	5193.4	5113.7	5036.7	5034.9	5042.9	5029.5	4834.3	4511.9
30°	5589.1	5590.9	5565.8	5510.3	5423.5	5324.1	5300.8	5314.2	5285.6	5033.1	4651.6
32.5°	5907.0	5915.9	5888.2	5821.0	5751.2	5630.3	5583.7	5592.7	5521.1	5236.3	4795.8
35°	6185.5	6198.0	6189.0	6144.3	6068.2	5964.3	5908.8	5903.4	5814.8	5485.3	4986.5
37.5°	6469.3	6480.9	6471.1	6433.5	6403.0	6292.9	6263.4	6263.4	6109.3	5739.5	5229.2
40°	6761.2	6779.1	6767.5	6715.5	6689.6	6639.4	6568.7	6551.7	6385.1	6044.9	5624.9
42.5°	7032.5	7055.8	7102.4	7071.9	7019.1	7026.2	6883.9	6874.9	6753.1	6496.2	6121.9
45°	7417.5	7451.6	7530.4	7507.1	7496.3	7456.9	7287.7	7279.6	7233.1	7103.2	6738.8
47.5°	7837.5	7884.0	8026.4	8030.9	8146.4	8072.1	7842.0	7814.2	7824.9	7830.3	7491.9
50°	8224.3	8275.3	8509.0	8619.2	8891.4	8907.5	8539.5	8514.4	8556.5	8680.1	8369.4
52.5°	8533.2	8597.7	8889.6	9229.8	9696.3	9828.9	9398.2	9379.4	9410.7	9623.8	9361.5
55°	8759.7	8829.6	9147.5	9767.1	10512.1	10745.8	10386.7	10368.8	10388.5	10659.8	10440.4
57.5°	8812.6	8829.6	9290.7	10128.8	11200.6	11762.0	11596.4	11560.6	11463.9	11700.3	11631.3
60°	8564.6	8632.6	9172.5	10256.0	11733.4	12764.0	12860.7	12815.9	12544.6	12738.0	12682.5
62.5°	8061.3	8183.1	8731.1	10062.6	11942.0	13582.4	14100.8	14047.1	13579.7	13705.1	13438.2
65°	7239.4	7291.3	7867.0	9395.5	11677.0	14106.2	15206.7	15179.8	14591.5	14395.4	13577.9
67.5°	5769.1	5866.7	6355.6	8001.3	10592.6	14044.4	16061.8	16059.1	15252.3	14651.5	13082.8
69°	4557.6	4658.8	5124.4	6591.1	9373.1	13479.4	16205.0	16236.4	15438.6	14495.7	12375.4
70°	3633.6	3750.9	4070.5	5551.5	8290.6	12734.5	16086.0	16142.4	15402.8	14238.7	11722.6
72.5°	1546.4	1641.3	1868.7	2861.7	5052.8	9509.2	14707.9	14921.0	14572.7	13031.7	9688.3
75°	675.1	704.7	807.7	1166.7	2243.0	5175.4	11522.1	11916.1	12460.5	11015.3	7217.0
77.5°	494.3	506.8	563.2	685.0	1006.4	1954.7	7409.5	7638.7	8986.3	8015.7	4426.9
80°	382.3	391.3	435.2	503.2	657.2	790.6	3379.3	3576.2	5052.8	4117.1	1843.6
82.5°	304.4	310.7	341.1	370.7	454.0	479.0	1121.9	1244.6	1865.1	1137.2	488.0
85°	282.9	290.1	300.9	270.4	291.0	281.2	485.3	507.7	563.2	446.8	204.2
87.5°	128.0	151.3	298.2	210.4	154.9	123.6	198.8	207.7	233.7	234.6	90.4
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: P318529
 CATALOG NUMBER: GLEON-SA5C-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1
2.5°	3406.1	3403.4	3407.9	3397.2	3410.6	3409.7	3405.2	3407.0	3416.0	3415.1	3416.0
5°	3426.7	3424.9	3430.3	3422.2	3438.4	3443.7	3444.6	3452.7	3462.5	3465.2	3465.2
7.5°	3478.6	3478.6	3481.3	3470.6	3481.3	3480.4	3476.0	3484.0	3493.9	3494.8	3493.9
10°	3568.2	3569.1	3564.6	3536.9	3527.9	3503.7	3481.3	3482.2	3494.8	3504.6	3507.3
12.5°	3681.0	3677.4	3657.7	3606.7	3569.1	3519.8	3496.6	3495.7	3508.2	3516.3	3518.9
15°	3809.9	3800.1	3749.1	3665.8	3599.5	3551.2	3513.6	3504.6	3497.5	3488.5	3489.4
17.5°	3931.7	3909.3	3824.3	3708.8	3638.9	3574.5	3501.9	3443.7	3403.4	3380.2	3373.0
20°	4055.3	4011.4	3888.7	3749.1	3660.4	3543.1	3403.4	3285.2	3211.8	3177.8	3171.5
22.5°	4168.1	4097.4	3948.7	3791.1	3643.4	3437.5	3218.1	3046.2	2944.1	2898.4	2902.0
25°	4278.2	4179.8	4011.4	3820.7	3557.4	3251.2	2960.2	2748.9	2630.7	2579.7	2577.9
27.5°	4374.9	4263.0	4079.5	3796.5	3397.2	2986.2	2654.9	2448.9	2350.4	2306.6	2299.4
30°	4486.0	4367.8	4169.9	3704.3	3162.6	2679.9	2356.7	2211.7	2141.8	2097.9	2089.9
32.5°	4621.2	4510.2	4244.2	3536.9	2862.6	2360.3	2123.9	2022.7	1959.1	1909.9	1900.9
35°	4818.2	4698.2	4263.0	3296.9	2533.1	2107.8	1952.9	1849.0	1763.1	1699.5	1693.2
37.5°	5065.3	4933.7	4220.0	2986.2	2213.4	1943.9	1810.5	1682.5	1570.5	1481.0	1466.7
40°	5421.7	5222.9	4101.0	2628.0	1978.0	1817.7	1671.7	1525.8	1387.0	1282.2	1261.6
42.5°	5849.7	5562.3	3918.3	2271.6	1805.1	1689.6	1533.8	1353.0	1220.4	1146.1	1135.4
45°	6394.1	5915.0	3664.9	1960.0	1635.0	1561.6	1385.2	1218.6	1136.3	1081.6	1072.7
47.5°	7015.5	6310.8	3399.0	1706.6	1490.8	1441.6	1266.1	1158.7	1093.3	1050.3	1042.3
50°	7779.3	6757.6	3116.9	1498.9	1345.8	1297.4	1209.7	1125.5	1073.6	1040.5	1032.4
52.5°	8640.7	7261.7	2913.6	1335.0	1225.8	1190.9	1180.1	1107.6	1065.5	1040.5	1032.4
55°	9568.3	7774.8	2694.3	1197.2	1121.9	1131.8	1160.4	1109.4	1080.8	1050.3	1038.7
57.5°	10496.8	8304.9	2449.8	1080.8	1039.6	1087.9	1147.0	1113.0	1088.8	1059.3	1048.5
60°	11231.1	8640.7	2071.1	983.2	974.2	1039.6	1114.8	1086.1	1054.8	1055.7	1053.9
62.5°	11574.0	8622.8	1652.9	896.3	908.8	974.2	1062.8	1044.0	1018.1	1053.0	1055.7
65°	11381.5	8193.0	1286.7	817.5	839.0	906.2	1009.1	1023.4	1032.4	1099.6	1108.5
67.5°	10573.8	7356.6	996.6	748.6	775.4	859.6	1014.5	1114.8	1126.4	1197.2	1196.3
69°	9738.4	6572.3	865.9	712.7	744.1	871.2	1084.3	1173.0	1129.1	1204.3	1193.6
70°	9038.2	5951.8	796.0	688.6	729.8	891.8	1130.9	1172.1	1115.7	1180.1	1162.2
72.5°	6960.9	4281.8	675.1	643.8	681.4	853.3	1144.3	1146.1	1084.3	1096.9	1066.4
75°	4774.3	2705.9	589.2	582.9	608.0	769.2	1101.3	1095.1	1002.9	984.9	959.9
77.5°	2632.5	1374.4	500.5	524.7	541.7	681.4	1001.1	992.1	916.0	878.4	869.4
80°	1015.4	601.7	422.6	466.5	477.3	590.1	877.5	869.4	805.9	757.5	744.1
82.5°	383.2	315.2	349.2	403.8	400.2	487.1	743.2	738.7	676.9	606.2	584.7
85°	177.3	188.9	276.7	333.1	307.1	360.8	594.5	602.6	527.4	443.2	443.2
87.5°	75.2	105.7	196.1	251.6	206.8	243.6	436.1	416.4	382.3	265.0	248.9
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)