

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: P528540

Luminaire Tested: **GALN-SA3C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13921 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

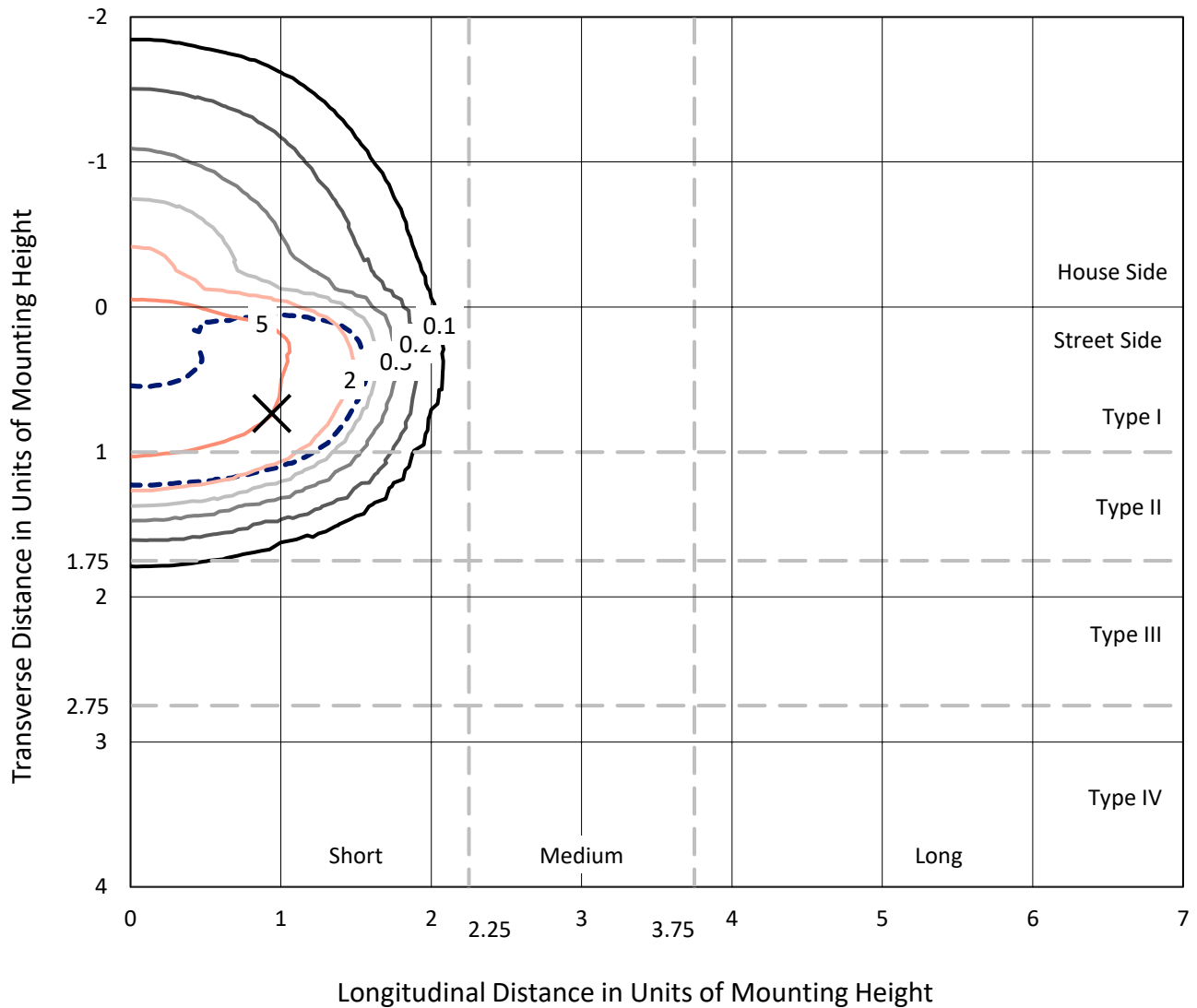
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

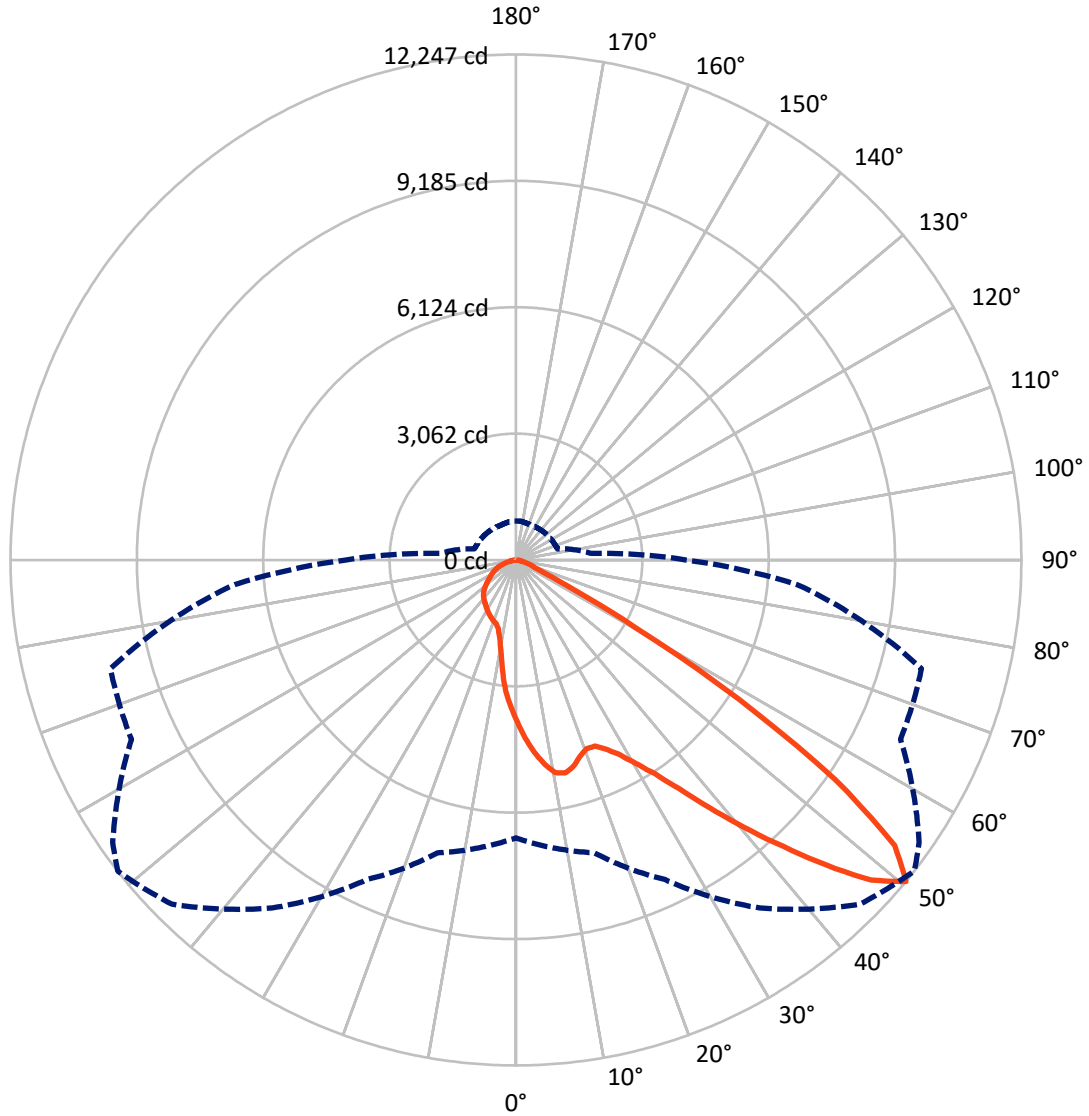
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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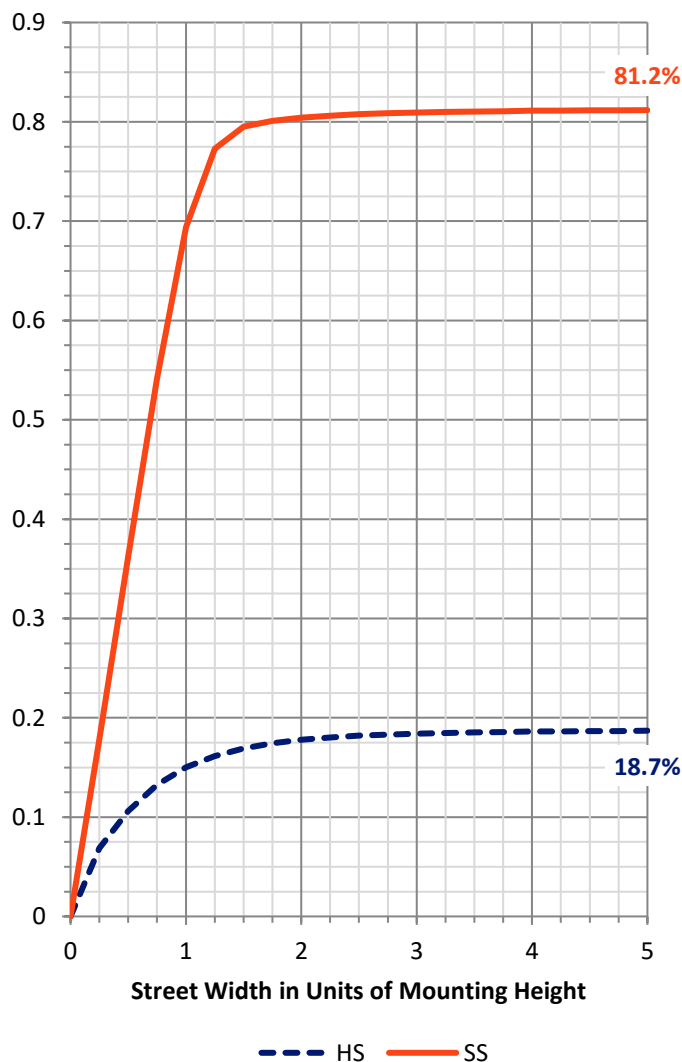
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2616.8	0.0	2616.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11304.2	0.0	11304.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	13921.0	0.0	13921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.7	2.6
10°-20°	969.4	7.0
20°-30°	1632.9	11.7
30°-40°	2740.2	19.7
40°-50°	4191.8	30.1
50°-60°	3056.1	22.0
60°-70°	680.1	4.9
70°-80°	245.3	1.8
80°-90°	43.4	0.3
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°	13921.0	100.0
0°-180°	13921.0	100.0

Coefficient of Utilization

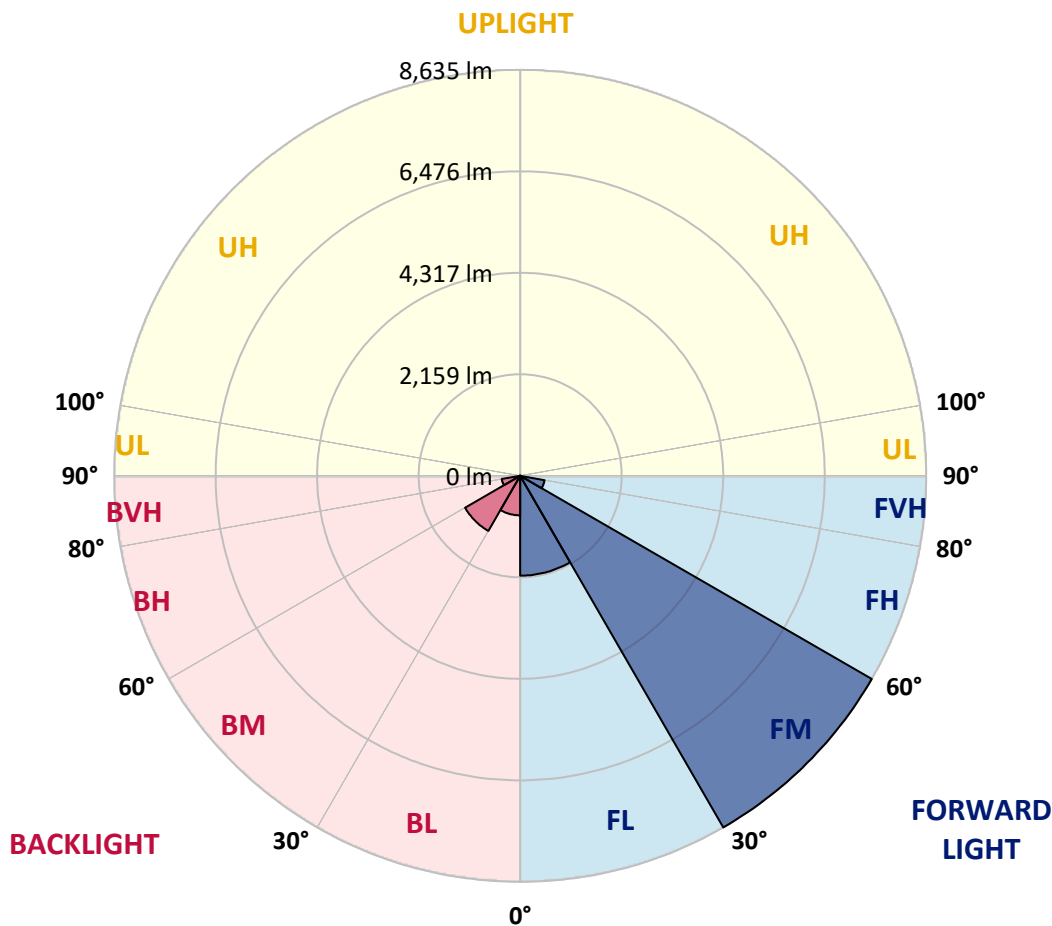


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.4	15.3			
FM (30°-60°)	8634.5	62.0			
FH (60°-80°)	526.8	3.8			G0/660
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	840.6	6.0	B2/1000		
BM (30°-60°)	1353.6	9.7	B2/2500		
BH (60°-80°)	398.7	2.9	B1/500		G1/500
BVH (80°-90°)	24.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	4620.3	4531.4	4541.5	4477.7	4408.9	4388.8	4318.4	4251.2	4200.9	4093.5	3994.6
5°	5049.8	5023.0	4982.7	4932.4	4880.4	4752.9	4680.7	4596.8	4412.3	4246.2	4081.8
7.5°	5111.9	5106.9	5128.7	5128.7	5147.1	5098.5	4996.1	4937.4	4741.1	4471.0	4165.7
10°	4675.7	4690.8	4796.5	4934.1	5125.3	5257.9	5241.1	5226.0	5011.2	4642.1	4264.7
12.5°	4328.4	4294.9	4356.9	4474.4	4761.3	5081.7	5298.1	5299.8	5244.4	4915.6	4336.8
15°	4132.1	4155.6	4172.4	4227.8	4444.2	4814.9	5195.8	5308.2	5551.5	5108.5	4450.9
17.5°	4258.0	4179.1	4175.8	4189.2	4299.9	4578.4	5006.2	5199.1	5719.2	5356.8	4591.8
20°	4422.4	4420.7	4373.7	4356.9	4355.3	4603.6	4882.1	5143.8	5808.1	5679.0	4734.4
22.5°	4710.9	4710.9	4633.8	4596.8	4518.0	4721.0	4898.8	5076.7	5955.8	5900.4	4803.2
25°	5194.1	5115.3	4982.7	4892.1	4846.8	4919.0	5076.7	5236.0	6085.0	6135.3	4945.8
27.5°	5640.4	5516.2	5450.8	5294.8	5234.4	5192.4	5336.7	5497.8	6235.9	6501.0	5023.0
30°	6147.0	6125.2	6007.8	5806.5	5657.1	5580.0	5712.5	5871.9	6512.8	6875.1	5200.8
32.5°	7053.0	6855.0	6695.6	6449.0	6205.7	6041.3	6172.2	6277.9	6972.4	7266.0	5395.4
35°	8031.1	7967.3	7692.2	7247.6	6875.1	6727.5	6804.7	6883.5	7507.6	7863.3	5722.6
37.5°	8992.4	8905.1	8678.7	8304.5	7851.6	7551.2	7606.6	7698.9	8108.2	8668.6	6121.9
40°	9683.6	9576.2	9462.1	9406.8	8957.1	8546.1	8514.2	8537.7	8920.2	9423.5	6564.8
42.5°	9733.9	9866.5	9901.7	10124.8	10019.1	9681.9	9485.6	9490.6	9695.3	10170.1	7012.7
45°	9628.2	9505.7	9765.8	10374.8	10723.7	10881.4	10550.9	10509.0	10175.1	10603.0	7235.8
47.5°	8519.3	8552.8	8992.4	9955.4	10963.7	11668.3	11591.1	11451.9	10431.8	10587.9	7200.6
50°	6734.2	6937.2	7344.9	8544.4	10292.6	11792.4	12247.1	11925.0	10279.2	10171.8	6841.6
52.5°	4484.4	4568.3	4836.8	6385.3	8276.0	10540.9	11492.1	11565.9	10138.2	9626.5	6386.9
55°	1996.4	1989.7	2367.2	3335.2	5192.4	8021.0	9390.0	9839.6	9596.3	9071.2	5944.0
57.5°	845.6	874.1	1028.4	1441.1	2553.4	4840.1	6361.8	6756.0	7380.1	7448.9	4559.9
60°	572.1	575.4	617.4	721.4	1068.7	2273.3	3336.9	3810.0	4256.3	4226.1	2419.2
62.5°	449.6	461.4	493.2	535.2	634.2	1031.8	1493.1	1756.5	1785.1	1501.5	917.7
65°	384.2	385.9	417.7	453.0	496.6	600.6	719.7	733.1	741.5	714.7	674.4
67.5°	317.1	320.4	345.6	385.9	426.1	459.7	493.2	510.0	548.6	624.1	614.0
70°	251.7	256.7	278.5	312.0	349.0	369.1	411.0	426.1	461.4	520.1	543.6
72.5°	191.3	192.9	211.4	234.9	268.4	288.6	323.8	340.6	364.1	414.4	436.2
75°	137.6	142.6	156.0	167.8	172.8	186.2	219.8	238.2	271.8	293.6	295.3
77.5°	72.1	75.5	78.9	78.9	95.6	120.8	142.6	152.7	176.2	192.9	184.5
80°	28.5	30.2	38.6	52.0	67.1	87.2	102.3	107.4	127.5	137.6	142.6
82.5°	16.8	18.5	25.2	36.9	48.7	62.1	73.8	78.9	92.3	104.0	107.4
85°	8.4	10.1	15.1	23.5	31.9	38.6	36.9	35.2	35.2	33.6	35.2
87.5°	3.4	3.4	5.0	5.0	5.0	6.7	8.4	8.4	8.4	10.1	10.1
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°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	3929.1	3862.0	3800.0	3685.9	3561.7	3526.5	3382.2	3330.2	3293.3	3249.7	3236.2
5°	3949.3	3860.3	3660.7	3430.9	3248.0	3013.1	2858.8	2692.7	2571.9	2541.7	2533.3
7.5°	3991.2	3838.5	3494.6	3147.3	2773.2	2454.4	2211.2	2080.3	1964.6	1957.9	1946.1
10°	4038.2	3773.1	3313.4	2768.2	2290.0	1994.8	1848.8	1791.8	1763.2	1756.5	1753.2
12.5°	4076.8	3759.7	3110.4	2399.1	1947.8	1770.0	1726.3	1721.3	1733.0	1736.4	1743.1
15°	4093.5	3706.0	2865.5	2068.6	1734.7	1669.3	1687.7	1707.9	1716.3	1738.1	1721.3
17.5°	4125.4	3637.2	2563.5	1806.9	1615.6	1627.4	1659.2	1682.7	1696.1	1711.2	1689.4
20°	4142.2	3575.1	2280.0	1650.8	1573.7	1595.5	1639.1	1657.6	1674.3	1681.0	1655.9
22.5°	4127.1	3447.6	2030.0	1525.0	1533.4	1561.9	1600.5	1620.6	1610.6	1583.7	1568.6
25°	4086.8	3268.1	1770.0	1444.5	1476.4	1526.7	1556.9	1541.8	1523.3	1508.2	1503.2
27.5°	4085.2	3048.3	1582.1	1370.7	1427.7	1496.5	1486.4	1473.0	1481.4	1469.6	1456.2
30°	4093.5	2835.3	1427.7	1328.7	1392.5	1426.0	1437.8	1424.4	1434.4	1412.6	1419.3
32.5°	4049.9	2627.3	1327.0	1280.1	1350.5	1348.9	1387.4	1397.5	1374.0	1328.7	1335.4
35°	4068.4	2459.5	1241.5	1258.3	1303.6	1303.6	1333.8	1322.0	1259.9	1233.1	1239.8
37.5°	4195.9	2295.1	1199.5	1228.1	1258.3	1271.7	1261.6	1211.3	1196.2	1196.2	1199.5
40°	4316.7	2154.1	1174.4	1221.4	1216.3	1224.7	1150.9	1155.9	1155.9	1157.6	1149.2
42.5°	4424.0	2058.5	1154.2	1181.1	1189.5	1145.9	1100.6	1095.5	1107.3	1105.6	1098.9
45°	4462.6	1979.7	1125.7	1135.8	1142.5	1070.4	1048.6	1038.5	1051.9	1056.9	1063.7
47.5°	4315.0	1914.2	1093.8	1073.7	1060.3	1013.3	984.8	966.3	983.1	1011.6	1018.4
50°	4125.4	1828.7	1043.5	1004.9	976.4	956.3	936.1	917.7	929.4	949.6	944.5
52.5°	3845.2	1694.5	979.8	939.5	890.8	895.9	877.4	867.4	874.1	874.1	869.0
55°	3446.0	1392.5	872.4	843.9	803.6	817.0	820.4	807.0	793.5	805.3	795.2
57.5°	2352.1	983.1	778.4	778.4	738.2	756.6	755.0	723.1	691.2	694.6	687.8
60°	1360.6	783.5	718.0	711.3	669.4	684.5	687.8	666.0	617.4	620.7	614.0
62.5°	773.4	669.4	627.5	617.4	609.0	622.4	622.4	593.9	552.0	555.3	548.6
65°	657.7	620.7	560.3	558.7	555.3	558.7	545.2	515.0	478.1	463.0	464.7
67.5°	597.3	573.8	515.0	499.9	489.9	488.2	463.0	434.5	417.7	404.3	402.6
70°	523.4	505.0	461.4	441.2	431.2	407.7	382.5	364.1	340.6	333.9	340.6
72.5°	414.4	412.7	395.9	374.1	352.3	333.9	312.0	286.9	265.1	260.0	248.3
75°	286.9	290.2	293.6	290.2	271.8	248.3	223.1	203.0	176.2	161.1	157.7
77.5°	187.9	192.9	198.0	191.3	179.5	157.7	140.9	115.8	95.6	83.9	82.2
80°	137.6	144.3	147.6	142.6	129.2	112.4	94.0	73.8	58.7	48.7	48.7
82.5°	105.7	112.4	115.8	107.4	94.0	80.5	67.1	52.0	40.3	31.9	30.2
85°	36.9	35.2	41.9	43.6	52.0	48.7	40.3	30.2	23.5	16.8	15.1
87.5°	10.1	10.1	11.7	11.7	10.1	8.4	8.4	8.4	6.7	5.0	5.0
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)