

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: P530191

Luminaire Tested: **GALN-SA5B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13855 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

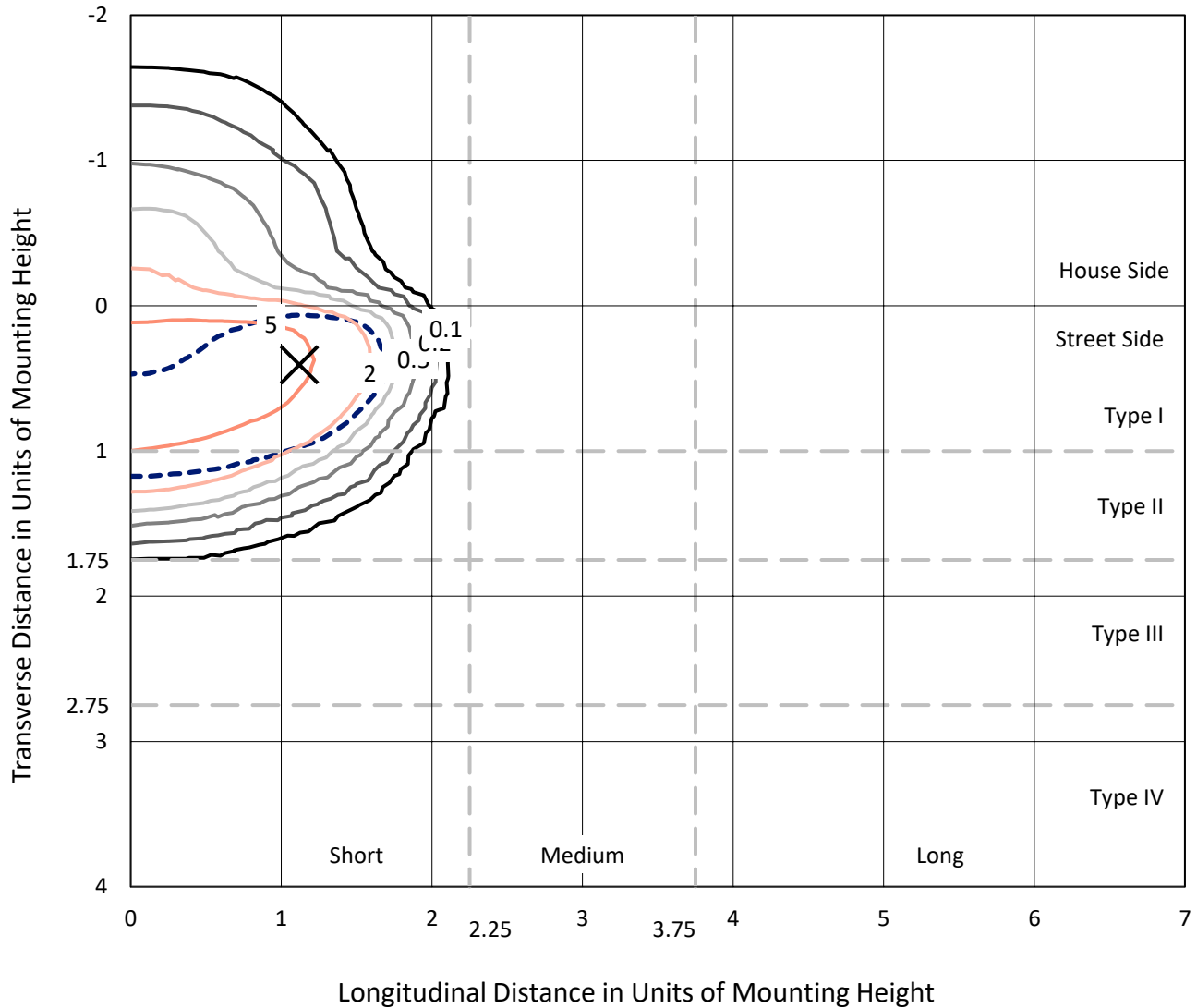
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

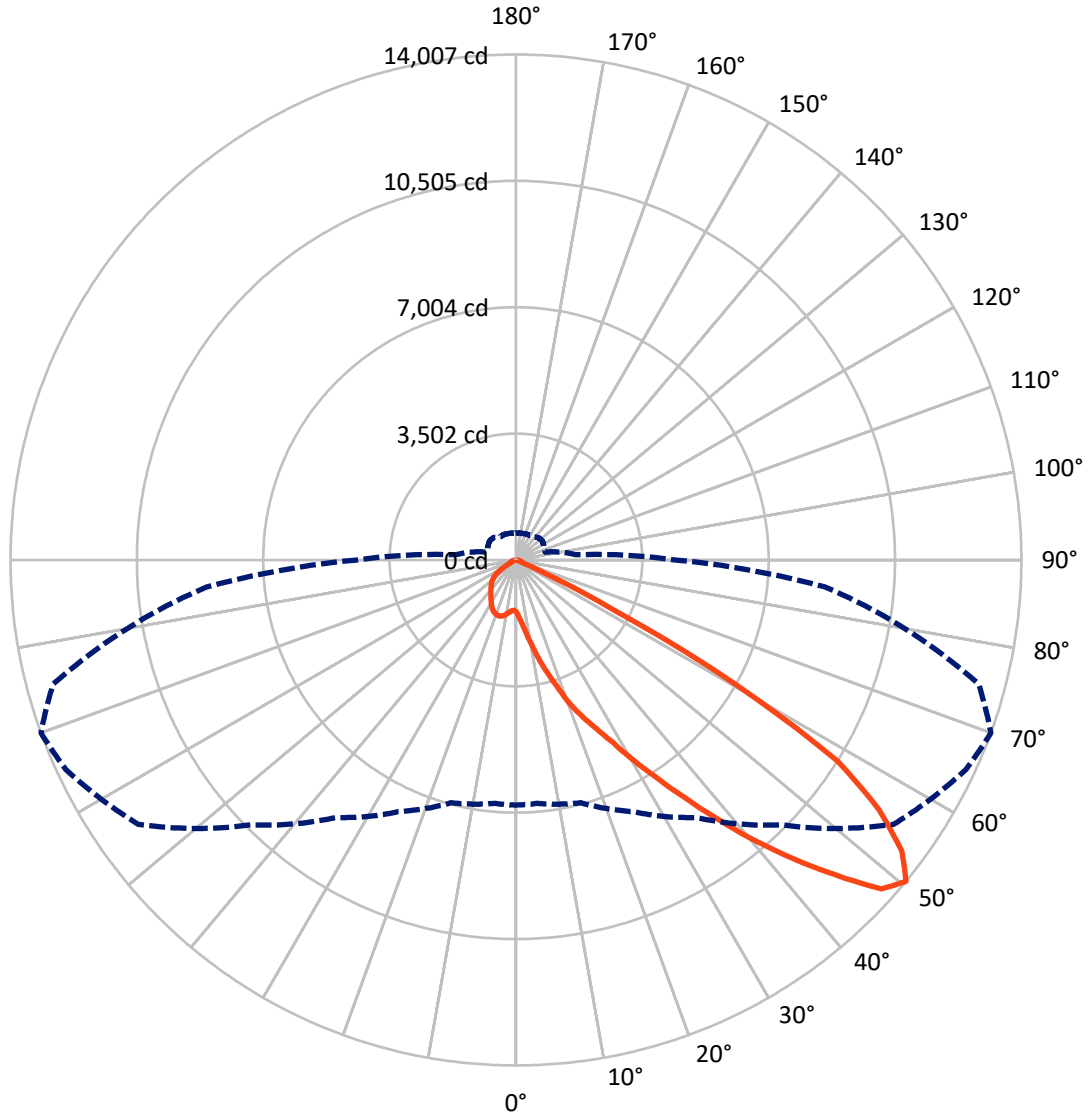
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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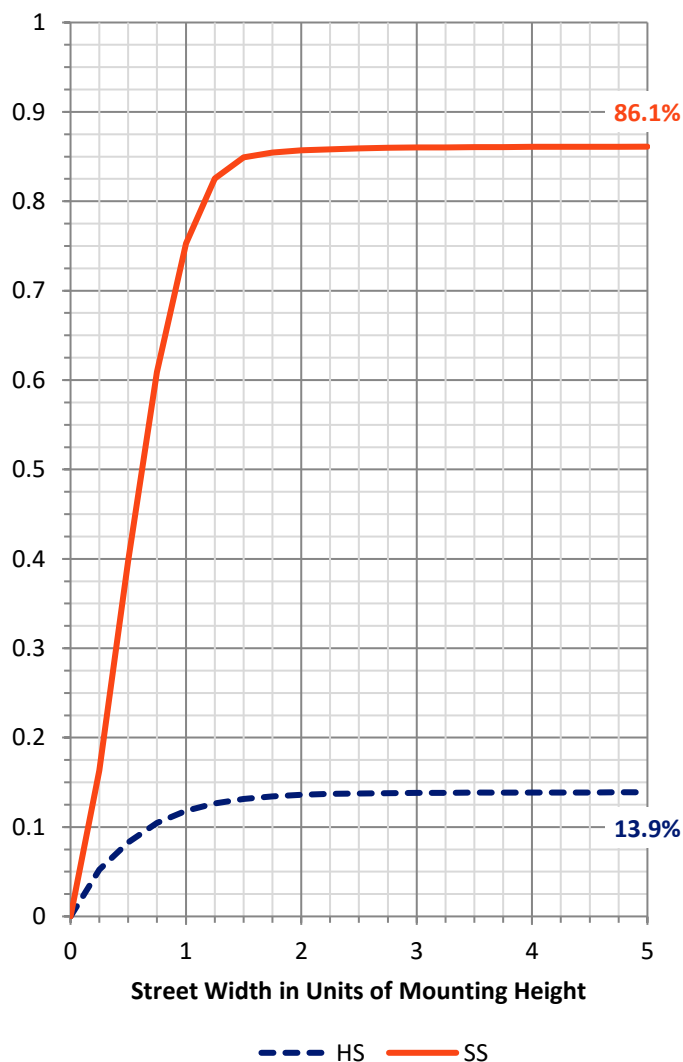
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1935.0	0.0	1935.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11920.1	0.0	11920.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	13855.0	0.0	13855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.3
10°-20°	807.2	5.8
20°-30°	1693.4	12.2
30°-40°	2918.9	21.1
40°-50°	4266.0	30.8
50°-60°	3322.5	24.0
60°-70°	562.9	4.1
70°-80°	77.3	0.6
80°-90°	20.0	0.1
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°	13855.0	100.0
0°-180°	13855.0	100.0

Coefficient of Utilization



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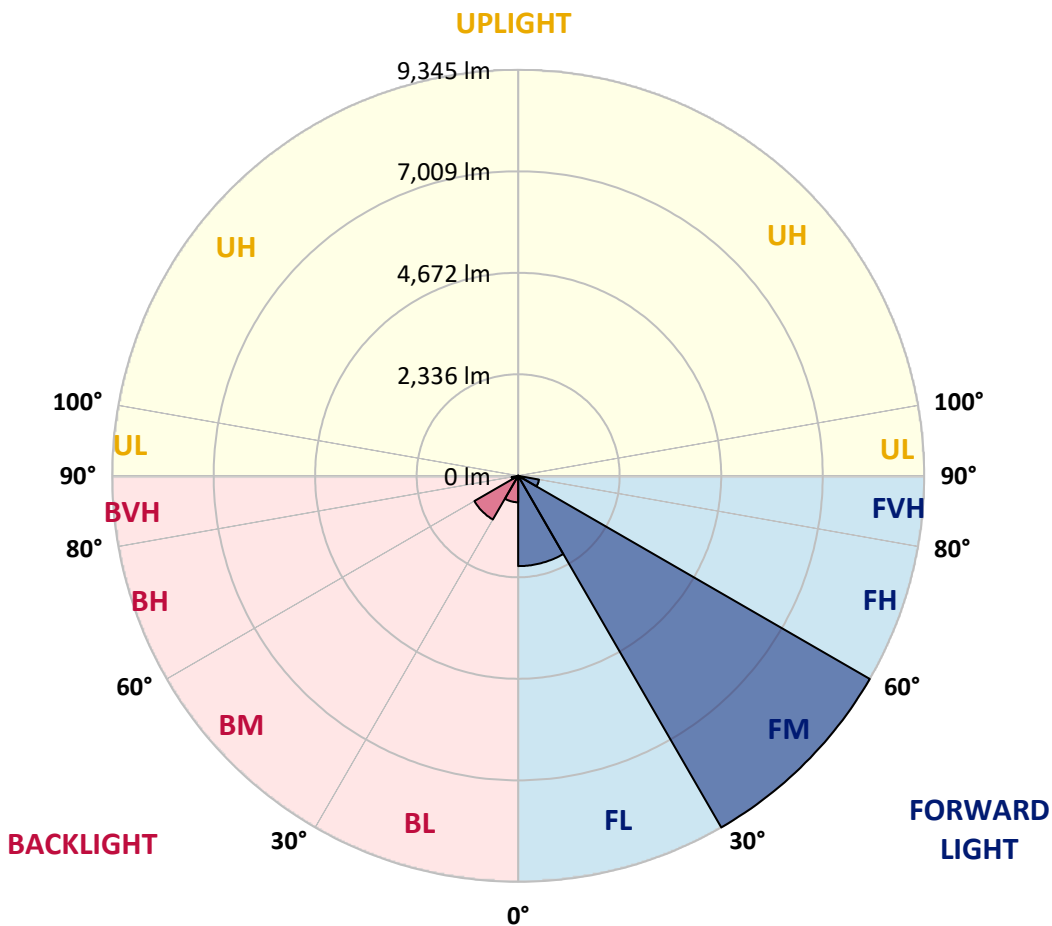
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.4	15.0			
FM (30°-60°)	9345.0	67.4			
FH (60°-80°)	487.4	3.5			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	608.9	4.4	B2/1000		
BM (30°-60°)	1162.4	8.4	B2/2500		
BH (60°-80°)	152.8	1.1	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1879.3	1865.6	1836.0	1781.4	1758.6	1703.9	1672.0	1610.5	1571.8	1528.5	1480.7
5°	2647.0	2576.4	2533.1	2471.6	2291.6	2180.0	1995.5	1838.3	1765.4	1685.7	1576.3
7.5°	3439.7	3394.1	3334.9	3202.8	3079.8	2847.4	2530.8	2184.5	2036.5	1899.8	1683.4
10°	4095.7	3968.2	3961.3	3863.4	3729.0	3451.1	3070.7	2640.1	2375.9	2175.4	1836.0
12.5°	4553.6	4437.4	4489.8	4478.4	4353.2	4098.0	3658.4	3088.9	2813.3	2501.2	1993.2
15°	4970.5	4922.6	4906.7	4893.0	4842.9	4653.8	4259.8	3635.6	3237.0	2861.1	2170.9
17.5°	5378.2	5255.2	5314.4	5325.8	5321.3	5150.4	4781.4	4155.0	3685.7	3241.5	2357.7
20°	5740.4	5751.8	5672.1	5656.1	5642.5	5635.6	5275.7	4669.8	4237.0	3640.2	2601.4
22.5°	6205.1	6125.4	6196.0	6150.5	6061.6	6006.9	5731.3	5125.4	4715.3	4120.8	2849.7
25°	6754.1	6817.9	6651.6	6633.4	6535.4	6346.4	6098.1	5635.6	5175.5	4567.3	3118.5
27.5°	7430.7	7319.0	7275.8	7175.5	6997.8	6918.1	6626.5	6161.8	5731.3	5036.5	3378.2
30°	8011.5	7981.9	7765.5	7647.1	7492.2	7489.9	7082.1	6874.8	6455.7	5772.3	3735.8
32.5°	8485.3	8355.5	8275.8	8193.8	8068.5	8102.6	7758.7	7649.3	7227.9	6455.7	4157.2
35°	8802.0	8708.6	8660.7	8535.5	8499.0	8651.6	8508.1	8462.6	8116.3	7417.0	4651.6
37.5°	8902.2	8931.8	8922.7	8765.5	8843.0	9255.3	9439.8	9321.3	9139.1	8430.7	5186.9
40°	8991.0	9011.5	8966.0	9150.5	9371.5	9840.7	10508.2	10312.3	10243.9	9458.0	5931.8
42.5°	9041.2	9025.2	9025.2	9344.1	9679.0	10622.1	11540.1	11410.2	11357.8	10551.4	6792.8
45°	8824.8	8669.9	8836.1	9269.0	9943.2	11007.0	12364.7	12544.6	12469.5	11852.1	7799.7
47.5°	8016.1	8111.8	8205.2	8783.8	9622.0	10888.6	12870.4	13483.2	13622.1	12945.6	8460.3
50°	6792.8	6772.3	6966.0	7694.9	8713.1	10378.3	12772.4	13754.2	14007.1	13273.6	8599.2
52.5°	4940.9	5091.2	5300.8	6025.2	7232.5	9057.1	11508.2	13054.9	13392.0	12870.4	8508.1
55°	2877.0	2710.8	3182.3	3795.1	4934.0	6831.6	9729.1	11572.0	12196.1	12136.9	8048.0
57.5°	1152.6	1116.2	1277.9	1722.1	2574.1	4234.7	7075.3	9508.1	10508.2	11116.4	7073.0
60°	505.7	494.3	580.9	701.6	1052.4	1952.2	3870.2	5913.5	6956.8	7767.8	4868.0
62.5°	364.5	359.9	403.2	446.5	555.8	849.7	1626.5	2382.7	2970.4	3587.8	2180.0
65°	293.9	305.2	334.9	357.6	410.0	471.5	574.0	662.9	813.2	842.8	480.6
67.5°	239.2	248.3	275.6	300.7	309.8	255.1	264.2	232.4	232.4	207.3	166.3
70°	175.4	177.7	209.6	239.2	191.3	102.5	180.0	180.0	161.7	154.9	141.2
72.5°	129.8	132.1	157.2	148.1	75.2	63.8	132.1	145.8	132.1	125.3	113.9
75°	95.7	98.0	82.0	34.2	31.9	41.0	77.5	100.2	95.7	93.4	86.6
77.5°	18.2	13.7	11.4	15.9	22.8	34.2	50.1	61.5	63.8	68.3	63.8
80°	2.3	2.3	6.8	13.7	25.1	36.4	52.4	59.2	61.5	63.8	59.2
82.5°	0.0	2.3	6.8	13.7	25.1	34.2	45.6	52.4	56.9	59.2	56.9
85°	0.0	2.3	4.6	11.4	20.5	25.1	22.8	15.9	13.7	15.9	11.4
87.5°	0.0	0.0	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1453.3	1444.2	1412.3	1378.2	1348.5	1362.2	1348.5	1337.2	1341.7	1337.2	1332.6
5°	1533.1	1492.1	1423.7	1394.1	1369.0	1366.8	1359.9	1357.7	1359.9	1359.9	1339.4
7.5°	1608.2	1542.2	1469.3	1437.4	1407.8	1410.0	1394.1	1394.1	1391.8	1380.4	1375.9
10°	1722.1	1633.3	1539.9	1482.9	1446.5	1439.7	1423.7	1407.8	1407.8	1407.8	1385.0
12.5°	1847.4	1735.8	1608.2	1542.2	1498.9	1464.7	1439.7	1435.1	1410.0	1405.5	1394.1
15°	1956.8	1815.5	1653.8	1562.7	1508.0	1462.4	1423.7	1398.7	1387.3	1380.4	1371.3
17.5°	2063.8	1883.9	1678.8	1562.7	1503.4	1451.1	1410.0	1387.3	1359.9	1364.5	1346.3
20°	2207.3	1956.8	1685.7	1533.1	1460.2	1410.0	1355.4	1344.0	1328.0	1314.4	1318.9
22.5°	2346.3	2009.1	1665.2	1496.6	1391.8	1332.6	1305.3	1291.6	1284.8	1273.4	1257.4
25°	2471.6	2066.1	1633.3	1430.5	1318.9	1275.6	1250.6	1248.3	1232.4	1232.4	1202.8
27.5°	2599.1	2086.6	1578.6	1353.1	1255.1	1230.1	1218.7	1214.1	1207.3	1191.4	1170.9
30°	2744.9	2093.4	1498.9	1273.4	1198.2	1170.9	1186.8	1198.2	1168.6	1139.0	1148.1
32.5°	2865.7	2077.5	1403.2	1198.2	1157.2	1143.5	1175.4	1186.8	1152.6	1120.7	1104.8
35°	3011.4	2038.8	1309.8	1139.0	1116.2	1143.5	1170.9	1170.9	1102.5	1063.8	1054.7
37.5°	3232.4	1995.5	1223.3	1088.9	1072.9	1129.9	1166.3	1141.3	1034.2	986.4	975.0
40°	3469.3	1968.1	1139.0	1038.7	1050.1	1107.1	1127.6	1050.1	940.8	911.2	902.1
42.5°	3813.3	1913.5	1063.8	995.5	1029.6	1075.2	1075.2	936.2	895.2	879.3	877.0
45°	4241.5	1874.7	997.7	959.0	1000.0	1011.4	975.0	877.0	847.4	842.8	845.1
47.5°	4451.1	1799.6	929.4	915.7	945.3	947.6	852.0	829.2	804.1	797.3	792.7
50°	4419.2	1665.2	840.6	858.8	899.8	877.0	776.8	781.3	758.6	756.3	744.9
52.5°	4196.0	1453.3	751.7	795.0	840.6	774.5	715.3	710.7	710.7	681.1	669.7
55°	3719.9	1170.9	644.7	699.3	754.0	651.5	635.5	631.0	619.6	592.3	585.4
57.5°	2945.4	858.8	485.2	544.4	640.1	553.5	551.3	530.8	501.1	480.6	480.6
60°	1751.7	494.3	305.2	332.6	423.7	448.8	498.9	489.8	439.6	407.8	398.6
62.5°	799.6	255.1	193.6	198.2	227.8	291.6	391.8	453.3	382.7	328.0	323.5
65°	268.8	189.1	159.5	152.6	157.2	175.4	234.6	321.2	305.2	252.9	243.7
67.5°	164.0	168.6	150.3	139.0	139.0	136.7	134.4	145.8	180.0	175.4	177.7
70°	141.2	154.9	139.0	125.3	120.7	113.9	95.7	79.7	68.3	79.7	84.3
72.5°	113.9	123.0	118.5	107.1	95.7	86.6	68.3	52.4	38.7	34.2	34.2
75°	84.3	91.1	95.7	82.0	72.9	61.5	50.1	34.2	20.5	13.7	13.7
77.5°	61.5	68.3	70.6	63.8	54.7	43.3	31.9	22.8	11.4	4.6	4.6
80°	52.4	61.5	68.3	63.8	56.9	41.0	29.6	15.9	9.1	2.3	2.3
82.5°	50.1	61.5	68.3	61.5	54.7	38.7	29.6	18.2	6.8	2.3	2.3
85°	11.4	15.9	20.5	25.1	29.6	29.6	22.8	13.7	6.8	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	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)