

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: P651798

Luminaire Tested: **GALN-SA3A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6772.6 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

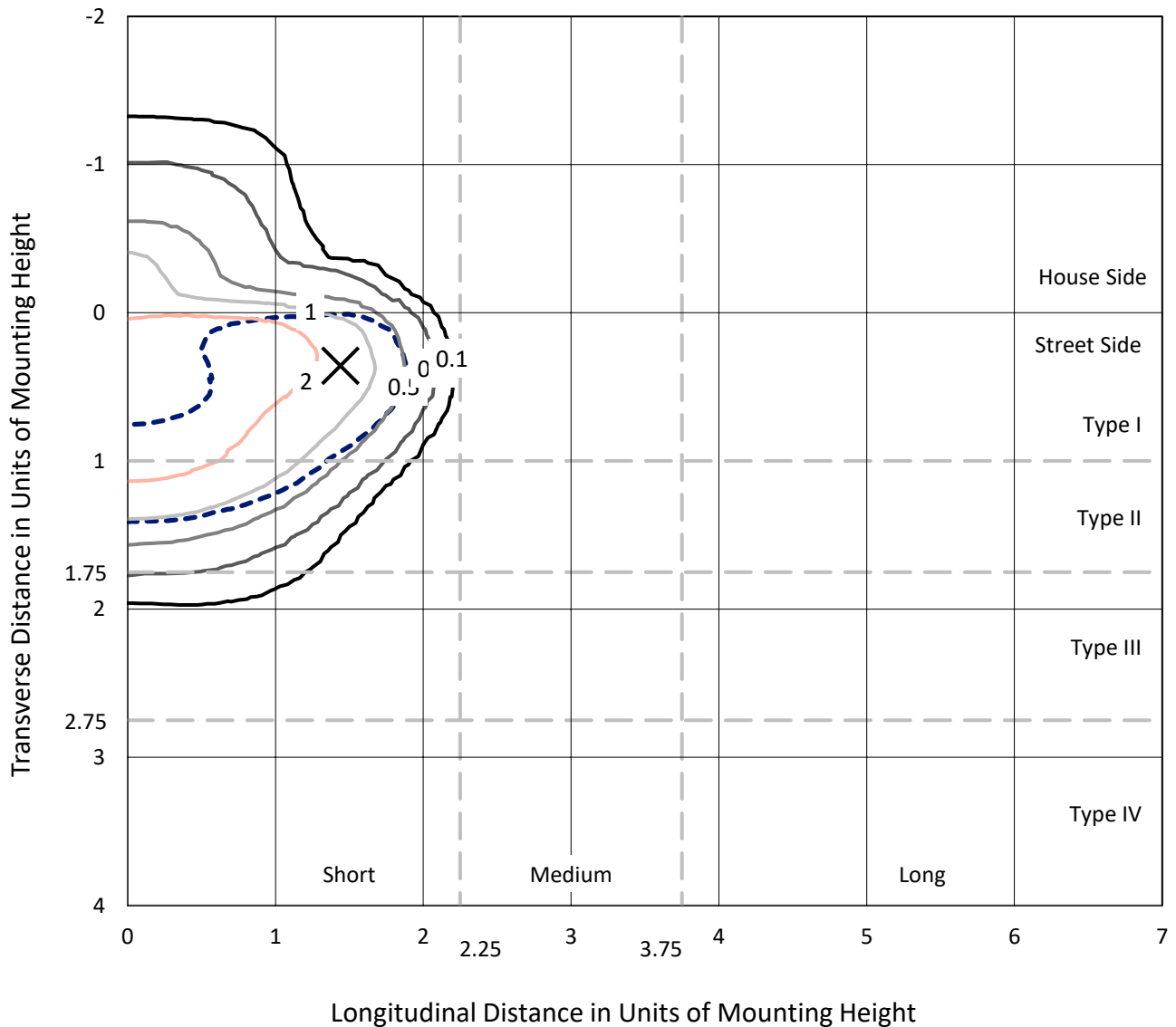
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651798
 CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

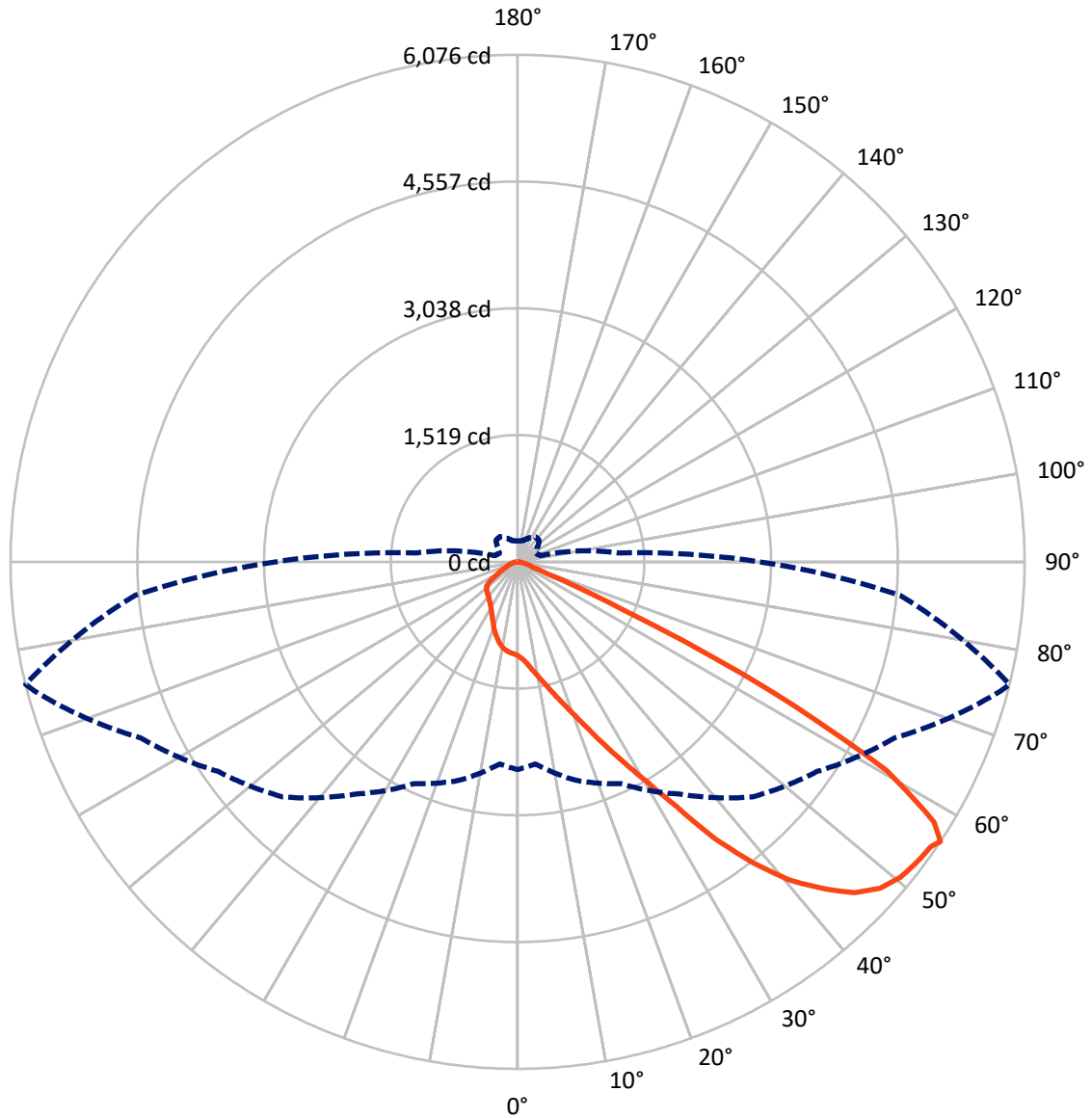
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P651798
CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651798
 CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSBK

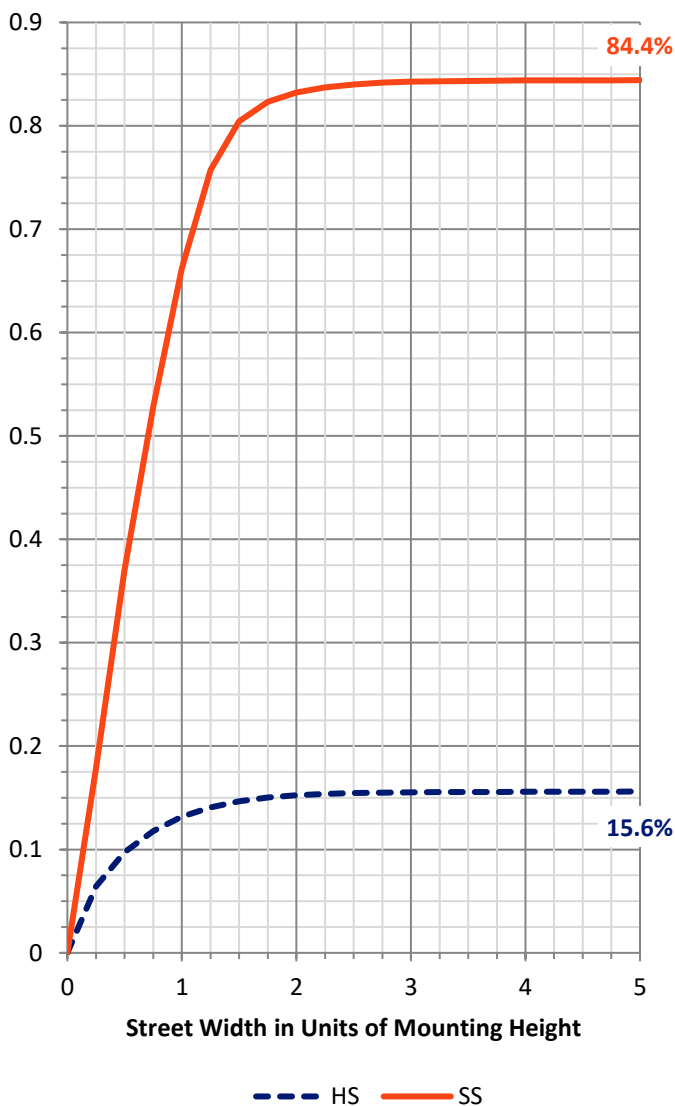
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1063.9	0.0	1063.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5708.6	0.0	5708.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	6772.6	0.0	6772.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.7
10°-20°	364.8	5.4
20°-30°	661.5	9.8
30°-40°	1140.8	16.8
40°-50°	1853.3	27.4
50°-60°	1953.5	28.8
60°-70°	596.9	8.8
70°-80°	76.5	1.1
80°-90°	11.6	0.2
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°	6772.6	100.0
0°-180°	6772.6	100.0

Coefficient of Utilization



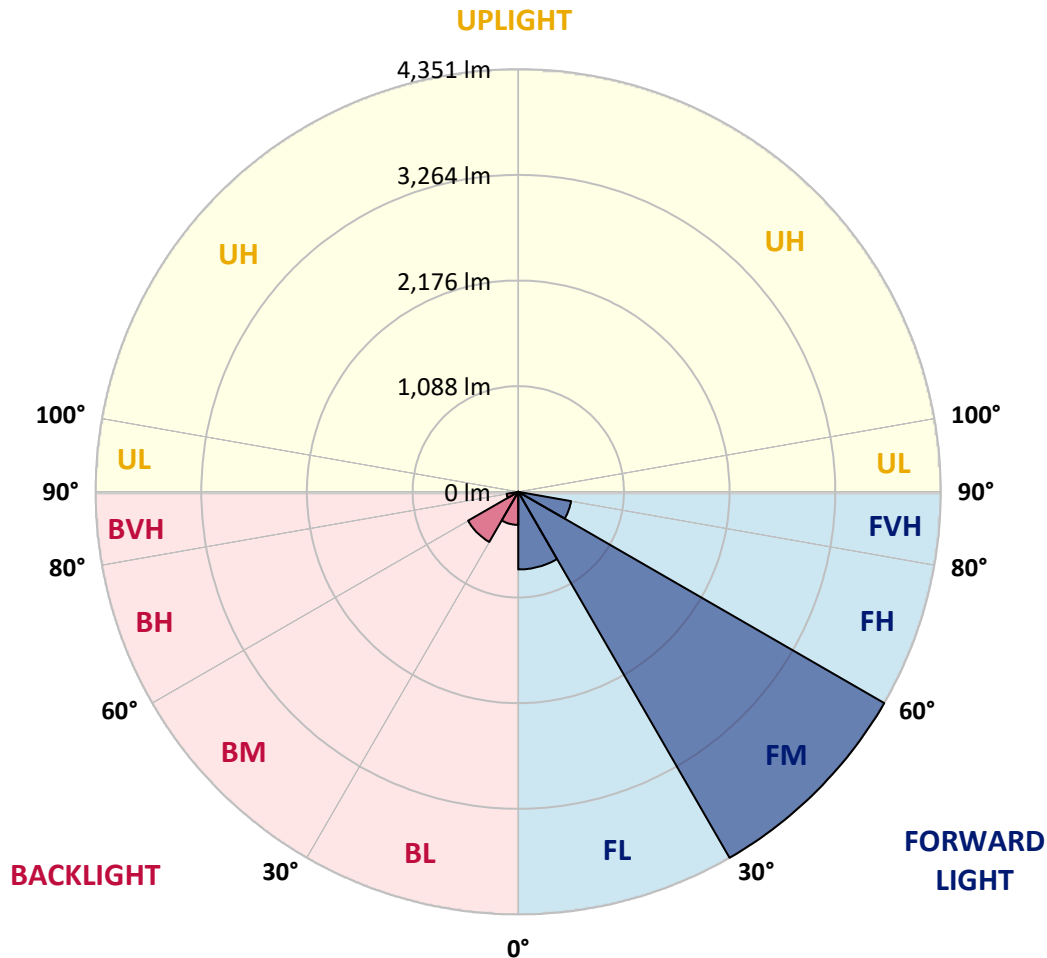
REPORT NUMBER: P651798
 CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.6	11.8			
FM (30°-60°)	4351.4	64.2			
FH (60°-80°)	552.0	8.2			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	340.4	5.0	B1/500		
BM (30°-60°)	596.3	8.8	B1/1000		
BH (60°-80°)	121.4	1.8	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P651798

CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1298.3	1268.4	1269.7	1267.1	1263.4	1249.6	1208.4	1202.2	1174.7	1167.2	1142.2
5°	1454.4	1428.2	1443.2	1420.7	1399.4	1387.0	1319.5	1288.3	1244.7	1228.4	1193.5
7.5°	1551.7	1539.3	1534.3	1535.5	1515.6	1484.4	1454.4	1385.7	1327.0	1314.6	1240.9
10°	1599.2	1591.7	1599.2	1595.5	1604.2	1607.9	1555.5	1514.3	1428.2	1406.9	1292.1
12.5°	1610.4	1625.4	1631.6	1647.9	1669.1	1705.3	1701.6	1645.4	1530.5	1516.8	1370.7
15°	1637.9	1650.4	1644.2	1670.4	1710.3	1771.5	1803.9	1795.2	1671.6	1646.7	1461.9
17.5°	1662.9	1640.4	1661.6	1714.0	1754.0	1847.6	1926.3	1962.5	1825.1	1796.5	1545.5
20°	1696.5	1690.3	1686.6	1712.8	1783.9	1908.8	2064.8	2131.0	1997.5	1967.5	1665.3
22.5°	1799.0	1800.2	1797.7	1759.0	1810.2	1951.3	2185.9	2349.5	2203.4	2178.4	1801.4
25°	1933.8	1917.6	1905.0	1873.8	1867.6	1990.0	2308.3	2616.7	2450.6	2433.1	1948.8
27.5°	2076.1	2076.1	2038.7	2009.9	1970.0	2086.1	2420.7	2876.3	2749.0	2725.3	2077.4
30°	2230.9	2239.7	2234.6	2173.5	2148.5	2191.0	2535.5	3208.4	3091.0	3061.1	2289.5
32.5°	2459.3	2440.6	2461.9	2410.6	2337.0	2374.5	2716.5	3505.5	3535.5	3493.0	2568.0
35°	2761.4	2750.2	2736.5	2652.9	2565.5	2595.4	2972.4	3871.3	4093.5	4072.3	2848.9
37.5°	3032.4	3026.1	3014.9	2957.5	2856.4	2892.5	3263.3	4252.0	4637.8	4567.9	3245.8
40°	3317.0	3350.7	3314.5	3263.3	3170.9	3250.8	3605.4	4478.0	5096.0	5011.1	3549.2
42.5°	3702.8	3676.5	3692.7	3599.1	3549.2	3636.6	3948.7	4704.0	5451.8	5350.6	3871.3
45°	4113.5	4114.8	4071.0	4041.1	3911.2	4006.1	4159.7	4828.8	5735.1	5656.5	4114.8
47.5°	4376.9	4375.6	4423.1	4470.5	4337.0	4243.3	4303.2	4947.4	5881.2	5845.0	4203.4
50°	4335.7	4348.1	4409.4	4586.6	4656.5	4530.5	4438.0	4912.4	5947.4	5943.6	4279.5
52.5°	3771.4	3812.6	3915.0	4170.9	4523.0	4679.0	4579.2	4977.4	5979.8	5986.1	4393.1
55°	2871.3	2893.8	3088.6	3399.4	3788.9	4323.2	4523.0	5028.6	6004.8	6016.0	4530.5
56°	2490.5	2430.7	2711.6	2932.5	3398.1	3982.4	4380.6	4988.6	5989.9	6076.0	4599.1
57.5°	1880.1	1840.1	2067.3	2343.3	2791.4	3408.2	3938.7	4800.1	5888.7	5887.4	4500.4
60°	1143.5	1103.6	1278.3	1440.6	1691.6	2098.5	2661.6	3822.6	4978.6	5083.5	3644.1
62.5°	680.4	705.3	877.6	976.2	1057.4	1099.9	1377.0	2272.0	3322.0	3396.9	2260.9
65°	453.1	461.9	591.7	754.0	790.2	629.2	560.5	920.1	1440.6	1394.5	932.6
67.5°	279.6	299.6	397.0	566.7	628.0	459.4	265.9	343.3	397.0	397.0	269.6
70°	169.8	179.8	264.7	385.8	430.7	295.9	193.5	193.5	191.0	187.3	161.1
72.5°	81.2	87.4	134.8	198.5	202.3	156.1	149.8	163.6	159.8	158.5	133.6
75°	35.0	37.4	47.4	62.4	71.1	66.2	91.2	117.3	121.1	117.3	96.1
77.5°	11.3	12.4	17.5	22.5	23.7	28.7	38.7	48.7	56.2	52.4	47.4
80°	1.3	2.5	5.0	11.3	17.5	22.5	28.7	32.5	36.2	36.2	33.7
82.5°	1.3	1.3	5.0	10.0	16.2	21.2	27.5	31.2	36.2	37.4	35.0
85°	0.0	1.3	3.8	8.7	13.7	13.7	12.4	12.4	8.7	8.7	8.7
87.5°	0.0	0.0	1.3	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5
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: P651798

CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1137.3	1134.8	1101.1	1079.8	1068.7	1046.1	1032.4	1022.4	1014.9	1006.2	1007.4
5°	1152.3	1143.5	1087.3	1048.6	1002.5	977.5	956.3	938.8	927.5	925.1	920.1
7.5°	1194.7	1148.6	1063.6	993.7	935.0	910.0	891.4	880.1	885.2	873.9	882.6
10°	1227.2	1158.5	1034.9	933.8	875.1	856.4	846.4	855.1	867.7	862.6	856.4
12.5°	1267.1	1168.5	988.8	876.4	821.5	807.7	825.2	841.4	866.4	876.4	863.9
15°	1312.0	1179.8	930.1	810.2	775.2	786.5	816.4	845.2	870.1	882.6	890.1
17.5°	1367.0	1176.0	872.6	757.7	731.6	764.0	800.2	826.5	863.9	882.6	877.6
20°	1418.2	1163.5	809.0	705.3	706.6	736.5	766.5	809.0	829.0	853.9	845.2
22.5°	1466.9	1141.1	742.8	669.2	669.2	715.4	730.3	757.7	775.2	787.8	786.5
25°	1535.5	1098.6	687.9	634.2	649.2	679.1	691.6	700.4	692.9	702.8	704.1
27.5°	1584.2	1054.9	642.9	603.0	630.4	653.0	649.2	644.2	626.7	613.0	621.7
30°	1636.7	1003.7	604.3	581.7	596.8	616.7	601.7	586.8	559.3	536.8	538.1
32.5°	1711.5	980.0	570.5	556.8	576.8	579.3	563.0	540.6	513.1	491.9	490.6
35°	1851.4	965.0	541.8	540.6	544.3	545.6	529.3	501.8	490.6	473.1	479.4
37.5°	1991.2	957.6	521.8	516.9	515.6	516.9	498.1	471.9	493.1	491.9	494.3
40°	2169.7	991.2	493.1	486.9	488.1	488.1	464.4	456.9	494.3	498.1	499.4
42.5°	2350.8	1033.7	474.4	454.4	459.4	459.4	446.9	438.2	464.4	439.4	435.7
45°	2508.0	1096.1	454.4	421.9	434.5	440.7	436.9	421.9	405.7	363.3	363.3
47.5°	2559.2	1151.0	430.7	390.7	400.7	428.2	417.0	385.8	357.0	322.1	319.6
50°	2649.1	1211.0	412.0	354.6	375.8	409.5	398.2	367.0	334.5	309.6	310.8
52.5°	2741.5	1279.6	377.0	312.1	338.3	394.5	394.5	359.5	309.6	292.2	289.6
55°	2880.1	1277.1	314.6	255.9	302.1	372.1	378.3	322.1	277.1	263.4	263.4
56°	2900.0	1219.7	283.4	239.7	285.9	365.8	367.0	312.1	264.7	249.7	249.7
57.5°	2750.2	1101.1	248.4	219.8	265.9	354.6	355.8	303.3	254.7	233.5	230.9
60°	2116.0	745.3	207.2	196.0	240.9	319.6	325.8	275.9	223.5	207.2	206.0
62.5°	1194.7	413.2	182.2	177.3	207.2	272.1	290.9	240.9	189.7	181.0	183.5
65°	545.6	227.2	153.6	143.6	167.3	209.7	234.7	198.5	156.1	146.1	146.1
67.5°	199.7	154.8	131.1	113.6	117.3	136.1	152.3	128.6	103.6	88.6	92.3
70°	142.3	129.9	114.9	98.6	91.2	88.6	87.4	72.4	51.2	39.9	42.5
72.5°	114.9	107.4	96.1	83.7	71.1	60.0	51.2	37.4	23.7	16.2	15.0
75°	82.4	78.6	69.9	60.0	50.0	42.5	35.0	23.7	12.4	6.2	6.2
77.5°	42.5	42.5	41.2	37.4	31.2	25.0	20.0	13.7	7.5	2.5	2.5
80°	32.5	35.0	36.2	32.5	28.7	22.5	16.2	10.0	5.0	1.3	1.3
82.5°	31.2	36.2	38.7	33.7	28.7	21.2	16.2	10.0	5.0	1.3	1.3
85°	7.5	7.5	11.3	12.4	16.2	17.5	13.7	8.7	3.8	1.3	1.3
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	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)