

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: P652303

Luminaire Tested: **GALN-SA3B-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10488.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

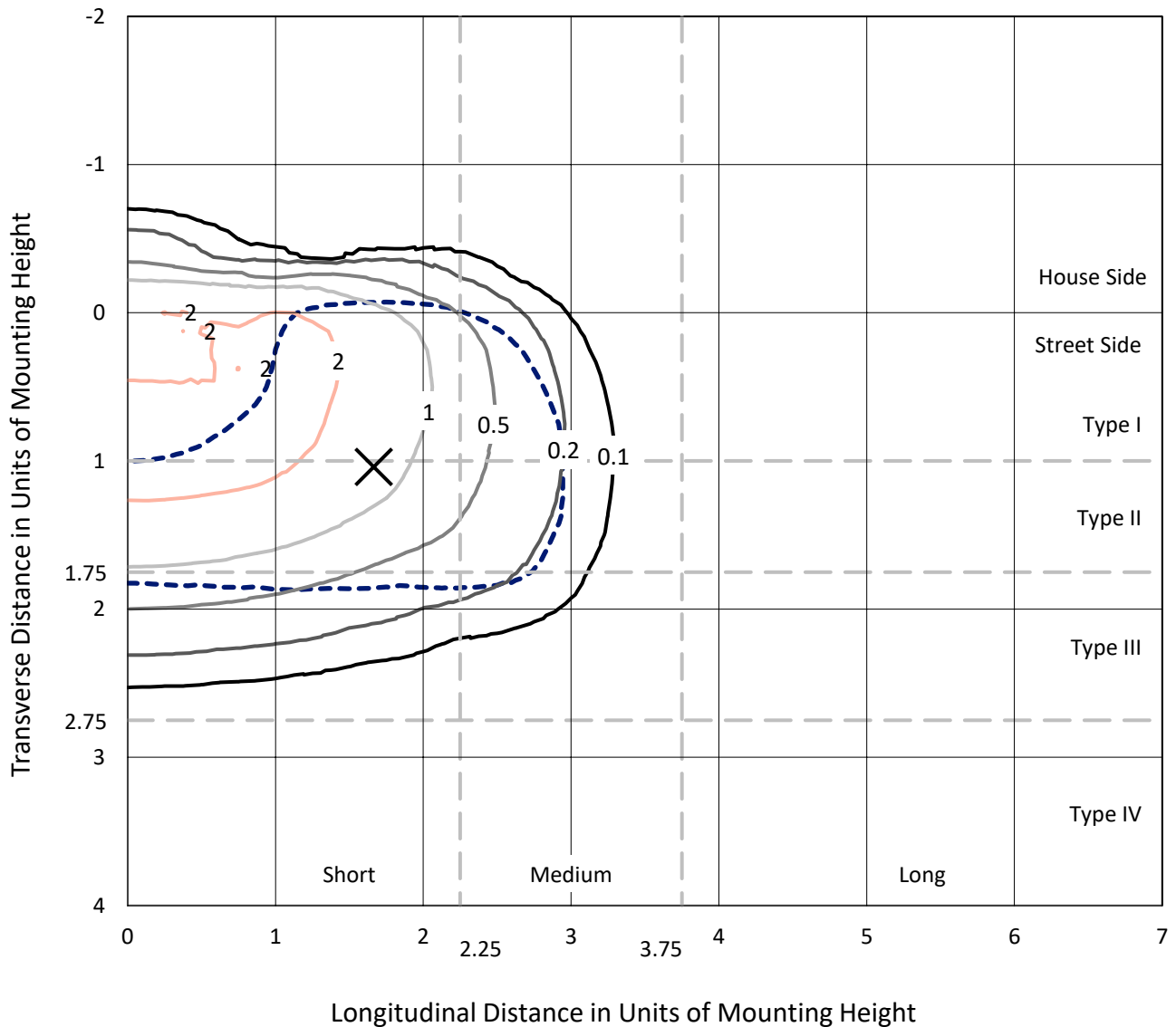
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

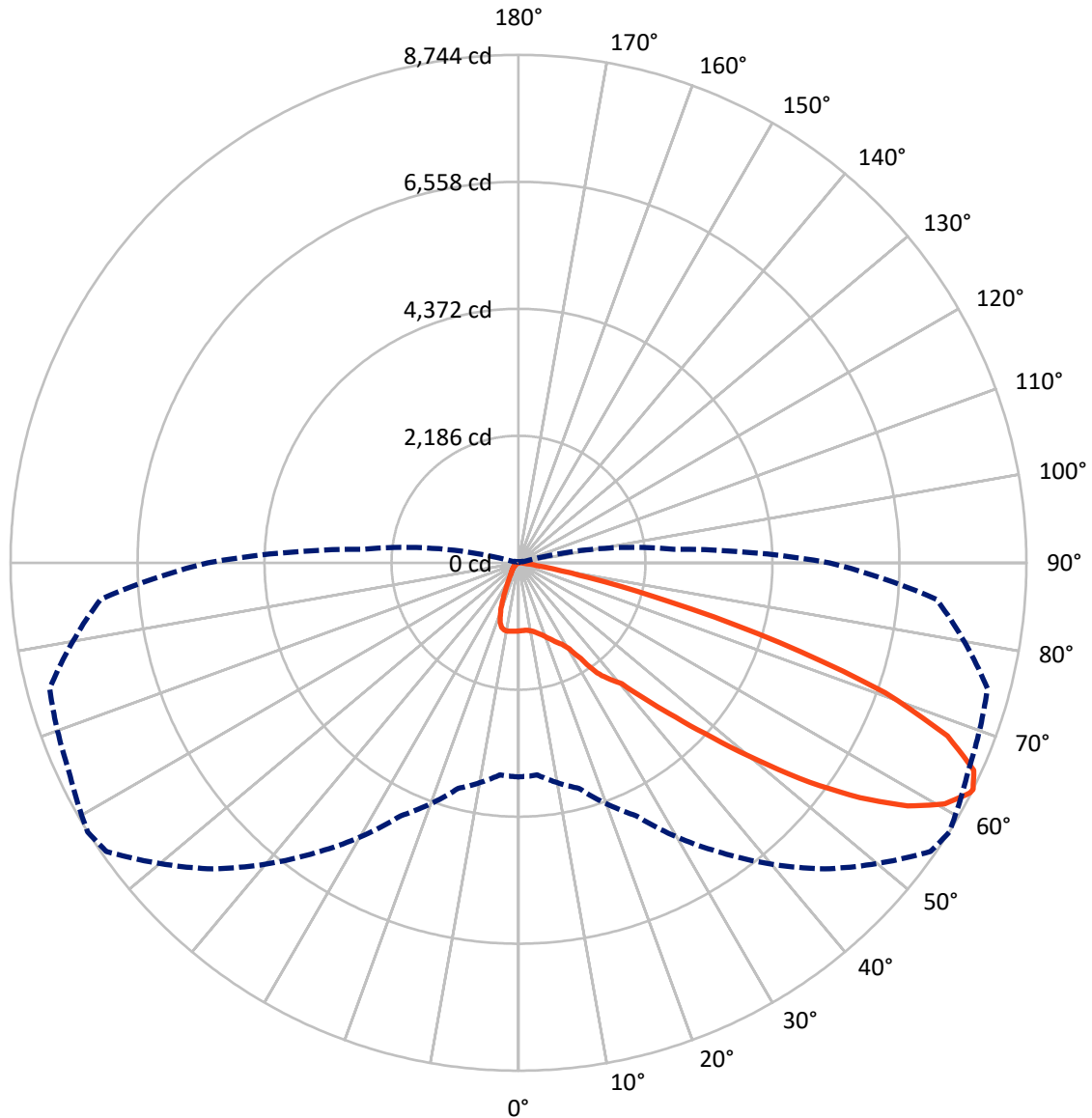
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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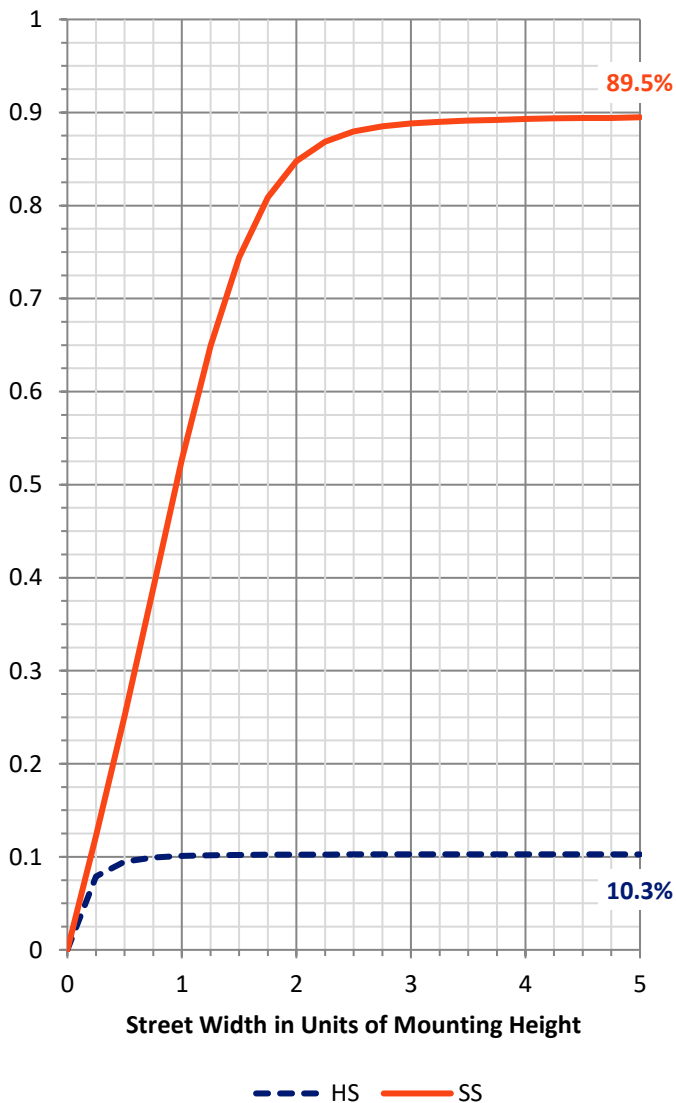
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.0	0.0	1086.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9402.1	0.0	9402.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	10488.1	0.0	10488.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.0
10°-20°	299.4	2.9
20°-30°	519.6	5.0
30°-40°	954.8	9.1
40°-50°	1797.4	17.1
50°-60°	3074.3	29.3
60°-70°	2943.7	28.1
70°-80°	750.6	7.2
80°-90°	38.4	0.4
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°	10488.1	100.0
0°-180°	10488.1	100.0



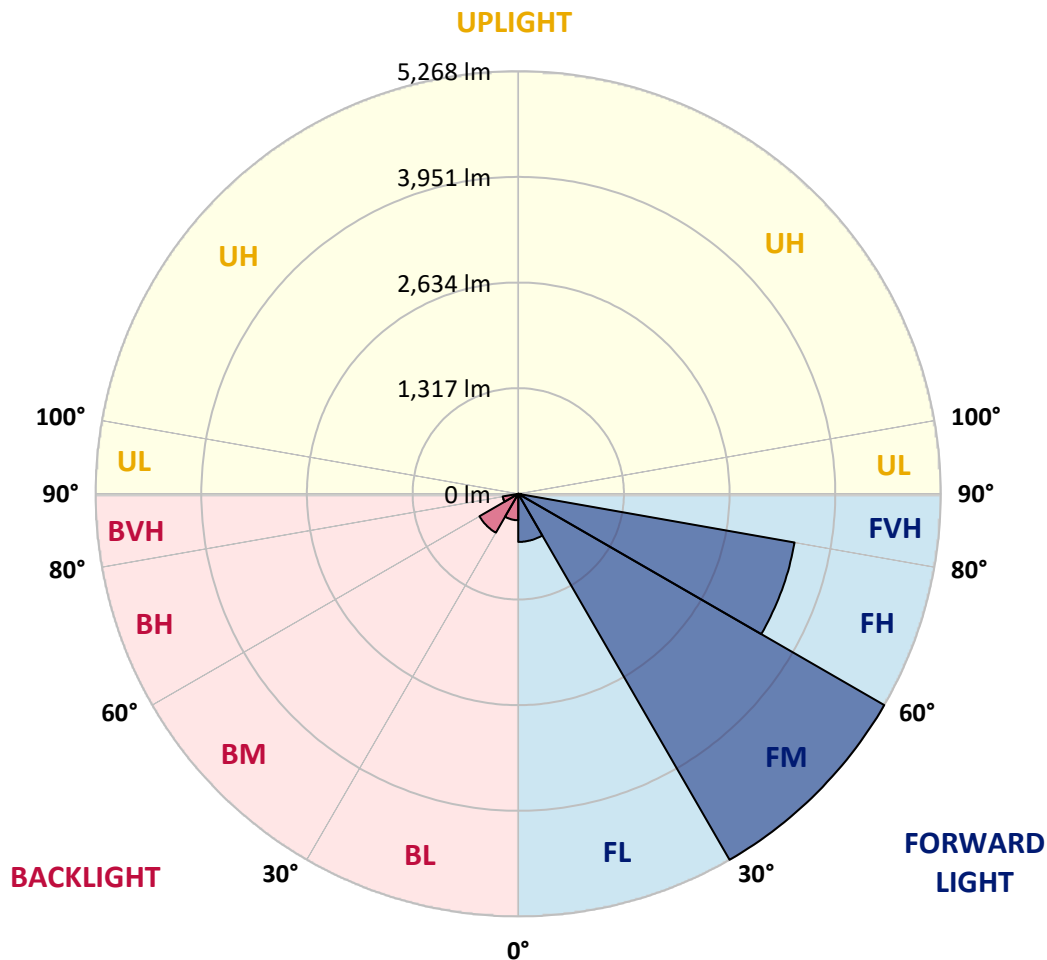
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.5	5.7			
FM (30°-60°)	5268.0	50.2			
FH (60°-80°)	3497.7	33.3			G2/5000
FVH (80°-90°)	36.9	0.4			G1/100
BL (0°-30°)	329.3	3.1	B1/500		
BM (30°-60°)	558.6	5.3	B1/1000		
BH (60°-80°)	196.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1144.9	1148.9	1152.8	1154.4	1160.0	1165.5	1169.4	1168.7	1175.0	1178.2	1178.2
5°	1099.2	1099.2	1109.4	1119.0	1134.7	1150.5	1165.5	1168.7	1180.5	1191.5	1195.5
7.5°	1060.5	1062.9	1070.8	1088.1	1109.4	1137.0	1167.1	1174.2	1194.7	1219.2	1229.5
10°	1042.3	1043.9	1054.2	1072.4	1099.2	1137.0	1178.9	1192.4	1223.9	1262.6	1276.8
12.5°	1038.4	1040.7	1051.0	1071.5	1102.3	1148.1	1205.0	1219.2	1265.0	1314.7	1336.1
15°	1045.4	1047.0	1057.3	1079.4	1113.4	1167.9	1239.7	1259.5	1314.0	1371.6	1399.3
17.5°	1070.8	1069.2	1076.3	1094.4	1132.3	1192.4	1281.6	1305.2	1369.2	1448.2	1466.4
20°	1178.2	1167.9	1161.6	1145.8	1160.7	1227.1	1332.1	1366.9	1445.8	1526.3	1539.0
22.5°	1409.5	1386.6	1341.6	1280.0	1232.7	1274.5	1392.9	1433.1	1535.1	1614.0	1614.0
25°	1704.0	1674.9	1629.8	1495.6	1379.5	1352.7	1461.6	1512.1	1632.2	1711.9	1685.9
27.5°	2072.8	2049.9	1962.2	1805.9	1628.3	1489.2	1541.4	1588.0	1718.2	1814.5	1760.1
30°	2372.9	2361.8	2290.0	2150.2	1954.3	1751.4	1689.8	1720.6	1832.7	1944.1	1888.0
32.5°	2626.4	2626.4	2552.9	2422.6	2239.4	2059.4	1941.7	1963.8	2071.2	2199.9	2095.7
35°	2905.1	2895.6	2836.4	2712.4	2507.1	2348.4	2300.2	2330.2	2427.3	2522.9	2266.2
37.5°	3198.0	3194.9	3133.2	3013.2	2845.9	2646.0	2533.2	2541.1	2590.8	2649.2	2466.1
40°	3516.2	3521.0	3440.4	3366.2	3208.2	3003.8	2787.4	2737.6	2784.2	2949.3	2834.8
42.5°	3892.1	3881.0	3846.3	3745.2	3618.1	3495.7	3235.9	3217.8	3258.8	3435.7	3311.7
45°	4328.8	4344.5	4284.6	4228.5	4143.2	4041.3	3824.2	3792.6	3837.7	4112.4	3936.3
47.5°	4766.2	4751.2	4789.9	4779.7	4825.5	4749.6	4557.8	4493.0	4601.2	4861.7	4602.8
50°	5099.5	5116.1	5196.5	5314.2	5510.8	5553.5	5369.5	5347.4	5395.6	5563.0	5199.0
52.5°	5315.8	5371.0	5497.4	5799.9	6154.4	6429.9	6290.3	6278.4	6258.6	6303.6	5769.1
55°	5457.2	5513.3	5678.3	6123.6	6734.0	7181.7	7188.8	7138.3	7008.0	6975.6	6302.0
57.5°	5370.3	5381.4	5616.7	6212.0	7055.4	7717.9	7950.1	7899.5	7658.7	7536.3	6772.7
60°	4827.0	4850.0	5177.6	5877.2	6915.6	7893.2	8454.6	8431.7	8168.0	8029.8	7139.1
62.5°	3864.5	3930.8	4268.0	5048.1	6265.7	7597.8	8659.1	8723.9	8518.6	8328.3	7254.4
63°	3687.6	3666.3	4022.4	4806.5	6093.6	7451.8	8662.3	8744.4	8534.4	8356.7	7222.8
65°	2729.8	2793.7	3025.1	3790.2	5071.1	6771.9	8467.3	8612.5	8475.9	8231.1	6873.0
67.5°	1532.6	1529.5	1785.4	2480.3	3549.4	5311.8	7656.3	7963.4	7935.0	7386.3	5697.2
70°	750.2	762.0	867.0	1285.6	2058.6	3664.7	6362.1	6693.7	6703.9	5801.5	3939.5
72.5°	339.5	345.1	420.1	626.2	1058.1	1951.2	4384.0	4700.7	4642.2	3697.0	2175.4
75°	179.2	191.1	231.4	315.0	510.1	804.7	2384.7	2691.0	2568.7	1689.1	800.7
77.5°	132.6	136.6	157.1	200.6	273.2	313.5	1028.9	1223.9	1146.5	611.2	265.3
80°	97.1	100.2	116.9	142.1	172.2	159.5	387.7	444.6	398.8	207.6	81.3
82.5°	59.2	60.0	85.3	105.8	108.2	89.2	127.9	137.4	143.7	116.9	44.2
85°	21.4	26.8	57.6	76.6	64.0	45.0	53.7	59.2	64.8	74.3	26.1
87.5°	2.4	3.2	27.7	37.1	18.2	16.6	19.8	22.1	23.7	27.7	12.6
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°	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1181.3	1184.5	1182.1	1178.2	1177.3	1175.0	1170.3	1170.3	1170.3	1171.8	1170.3
5°	1198.7	1201.0	1195.5	1187.6	1178.9	1167.9	1156.0	1148.9	1148.1	1146.5	1142.6
7.5°	1231.8	1235.0	1222.4	1203.4	1179.7	1152.8	1127.6	1103.9	1092.9	1084.1	1084.1
10°	1280.0	1283.1	1257.9	1223.9	1176.6	1122.1	1062.0	1007.6	965.0	945.2	940.5
12.5°	1337.6	1339.2	1297.3	1238.1	1160.0	1055.0	927.0	807.8	724.9	687.0	683.1
15°	1400.8	1389.8	1334.5	1243.7	1112.6	916.8	695.7	549.6	463.5	438.2	447.7
17.5°	1464.8	1444.2	1362.9	1235.0	1006.0	695.7	467.4	375.1	348.3	341.1	341.1
20°	1524.8	1496.4	1383.4	1197.1	821.2	479.3	346.7	324.5	319.8	315.0	315.9
22.5°	1584.8	1541.4	1401.6	1112.6	612.0	342.7	310.3	303.2	296.9	290.6	289.8
25°	1643.2	1583.2	1408.7	956.2	417.0	294.5	283.5	274.0	261.4	254.2	252.7
27.5°	1704.0	1633.7	1404.0	758.8	304.0	263.7	252.7	239.3	224.3	211.6	211.6
30°	1820.9	1730.1	1387.4	545.6	255.8	232.1	217.9	196.6	180.1	167.4	166.6
32.5°	1980.4	1855.7	1330.5	383.7	227.4	204.5	183.2	159.5	142.1	132.6	132.6
35°	2122.5	1982.0	1223.9	282.7	204.5	177.7	151.6	128.7	115.3	109.0	106.6
37.5°	2338.9	2166.8	1077.1	229.8	182.4	154.0	127.2	105.8	94.8	90.0	90.0
40°	2663.4	2392.6	897.0	201.3	161.1	131.1	105.8	89.2	80.6	75.0	75.0
42.5°	3066.1	2669.0	714.6	180.8	141.4	112.9	88.5	75.8	67.9	64.0	63.2
45°	3573.1	2960.3	550.4	161.9	125.6	96.3	75.0	64.0	56.1	53.7	54.5
47.5°	4102.1	3217.0	426.4	145.3	109.0	81.3	64.0	55.3	49.8	46.6	46.6
50°	4553.8	3393.9	323.8	126.3	96.3	68.7	56.1	49.8	45.0	43.4	42.6
52.5°	4931.3	3445.2	247.9	109.8	84.5	59.2	49.8	45.0	41.0	38.7	38.7
55°	5252.6	3400.2	194.3	92.4	71.1	51.3	44.2	40.3	35.6	33.1	32.4
57.5°	5440.6	3255.7	148.4	76.6	57.6	42.6	38.7	34.0	28.4	24.5	24.5
60°	5535.3	3045.6	113.7	63.2	44.2	34.0	31.6	25.2	19.8	16.6	15.8
62.5°	5421.6	2766.9	86.0	49.8	33.1	25.2	21.4	18.2	12.6	9.5	9.5
63°	5351.4	2686.3	82.9	47.3	30.8	23.7	19.8	16.6	11.0	8.7	7.9
65°	4878.4	2335.0	67.9	37.9	24.5	16.6	13.5	11.9	7.9	4.0	3.2
67.5°	3874.0	1786.1	53.7	28.4	17.4	11.9	7.9	7.1	2.4	0.0	0.0
70°	2619.2	1153.7	41.9	20.5	11.9	7.1	4.0	3.2	0.8	0.0	0.0
72.5°	1366.0	591.5	32.4	15.0	7.1	4.7	2.4	0.8	0.0	0.0	0.0
75°	483.2	201.3	23.7	9.5	4.7	2.4	0.8	0.0	0.0	0.0	0.0
77.5°	146.1	75.0	15.0	7.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	51.3	27.7	8.7	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.2	13.5	5.6	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.2	8.7	4.7	4.0	2.4	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	6.3	4.7	4.0	3.2	1.6	0.8	0.0	0.0	0.0	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)