

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: P652293

Luminaire Tested: **GALN-SA3B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652293
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-SA3B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 8426.8 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

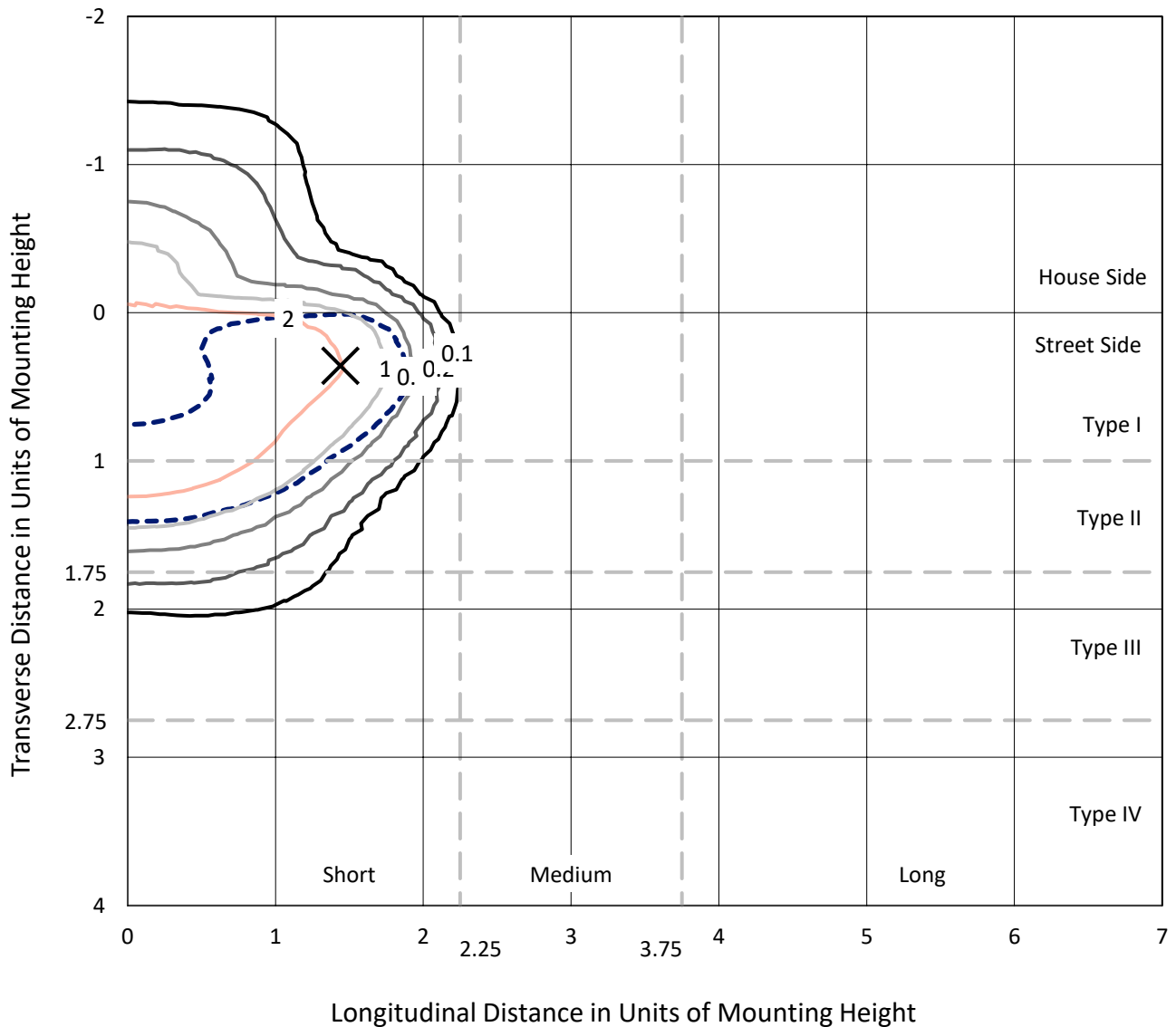
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652293
 CATALOG NUMBER: GALN-SA3B-840-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

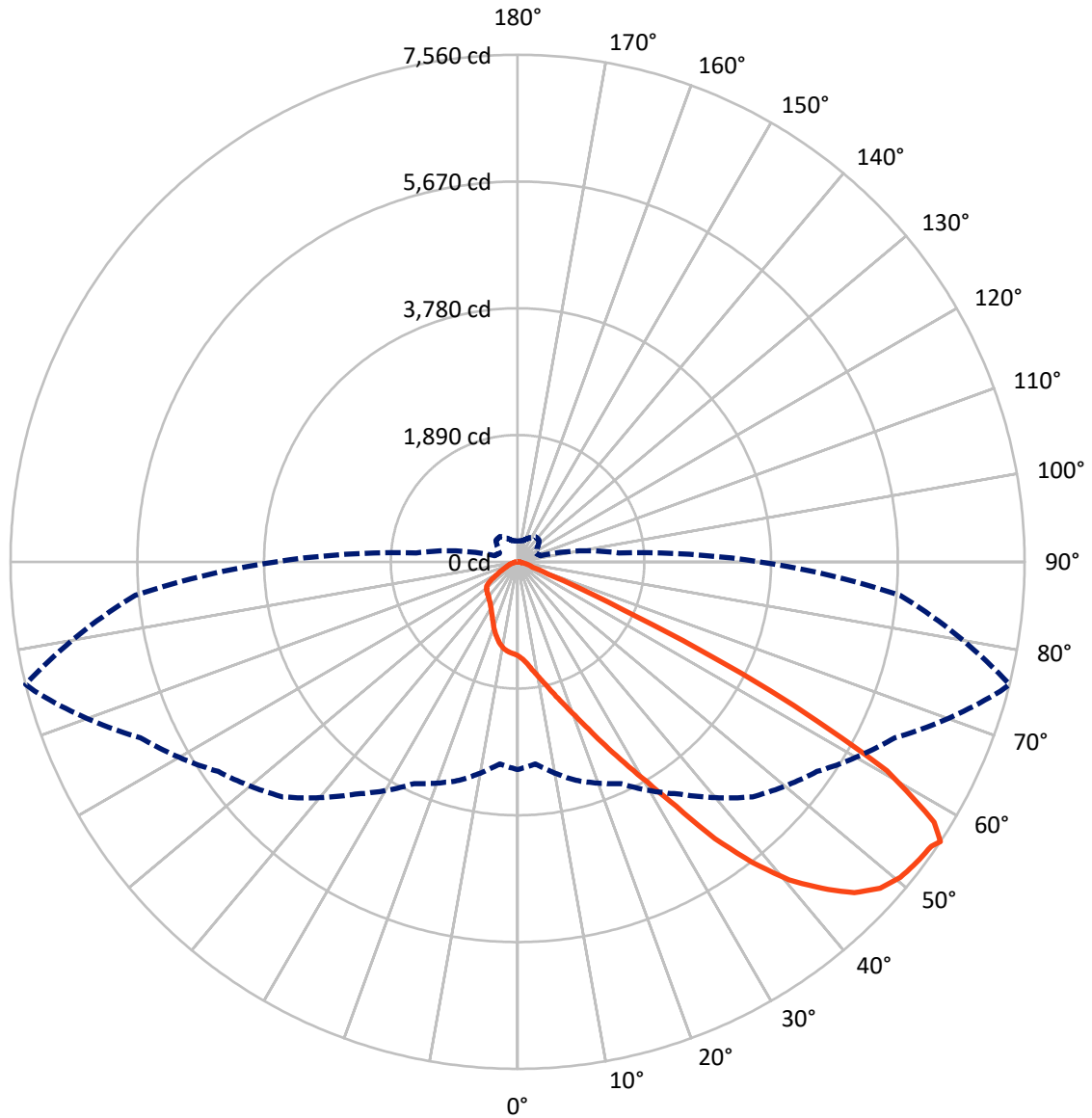
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

REPORT NUMBER: P652293
CATALOG NUMBER: GALN-SA3B-840-U-T2-GRSBK

Luminous Intensity Polar Plot



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

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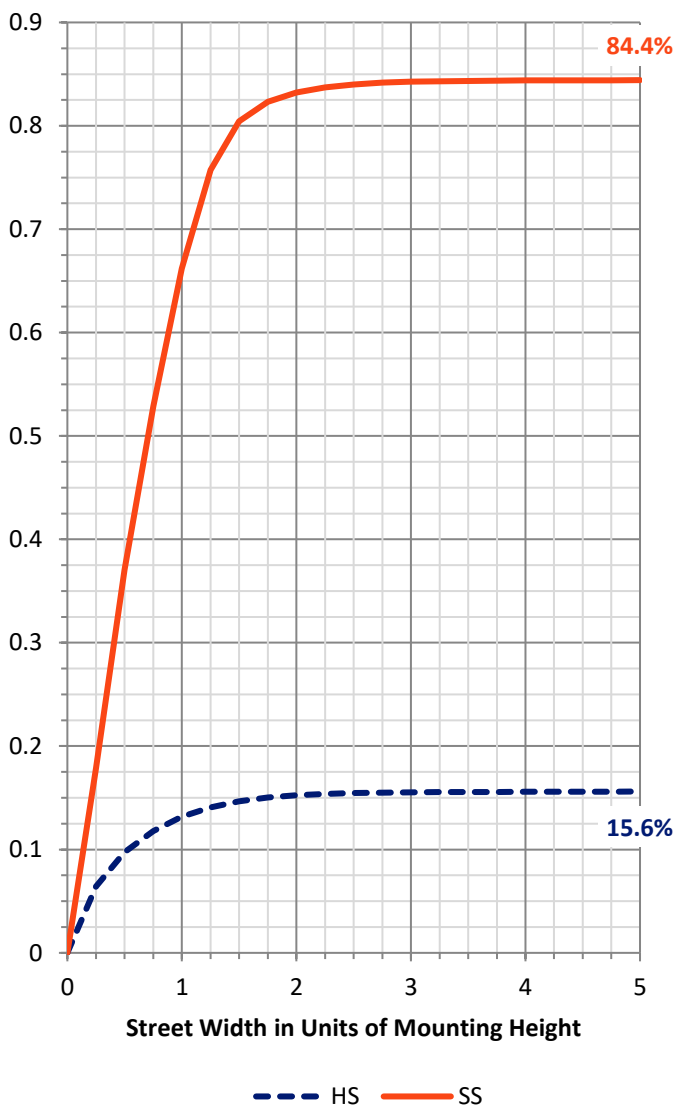
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.8	0.0	1323.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	7103.0	0.0	7103.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	8426.8	0.0	8426.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.7
10°-20°	453.9	5.4
20°-30°	823.1	9.8
30°-40°	1419.5	16.8
40°-50°	2306.0	27.4
50°-60°	2430.6	28.8
60°-70°	742.7	8.8
70°-80°	95.2	1.1
80°-90°	14.5	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°	8426.8	100.0
0°-180°	8426.8	100.0

Coefficient of Utilization

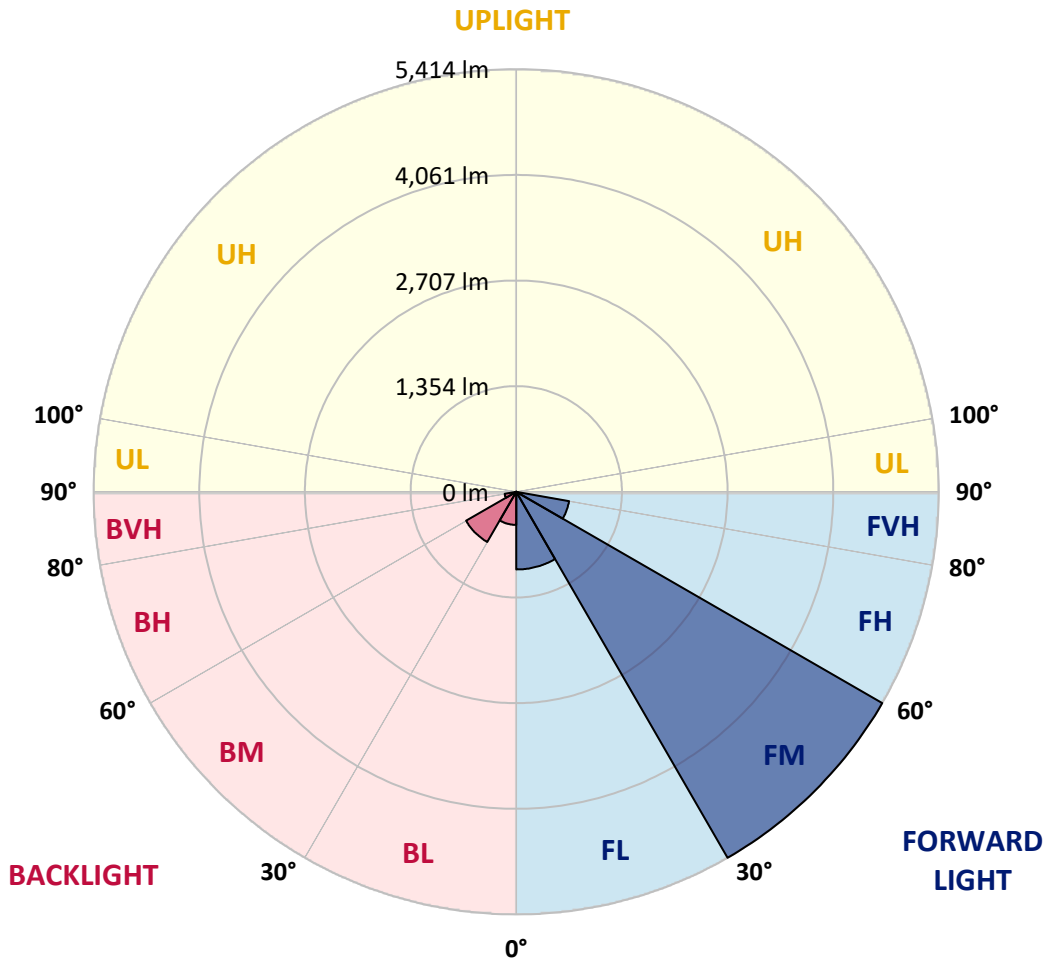


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.9	11.8			
FM (30°-60°)	5414.2	64.2			
FH (60°-80°)	686.8	8.2			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	423.5	5.0	B1/500		
BM (30°-60°)	741.9	8.8	B1/1000		
BH (60°-80°)	151.0	1.8	B1/500		G1/500
BVH (80°-90°)	7.4	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: P652293

CATALOG NUMBER: GALN-SA3B-840-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6
2.5°	1615.5	1578.2	1579.7	1576.6	1572.0	1554.9	1503.6	1495.9	1461.7	1452.3	1421.3
5°	1809.7	1777.0	1795.6	1767.7	1741.3	1725.7	1641.9	1603.0	1548.7	1528.5	1485.0
7.5°	1930.8	1915.3	1909.1	1910.6	1885.8	1846.9	1809.7	1724.2	1651.2	1635.7	1544.0
10°	1989.8	1980.5	1989.8	1985.2	1996.0	2000.7	1935.5	1884.2	1777.0	1750.6	1607.7
12.5°	2003.8	2022.4	2030.2	2050.4	2076.8	2121.8	2117.2	2047.3	1904.4	1887.3	1705.5
15°	2038.0	2053.5	2045.7	2078.4	2128.1	2204.2	2244.5	2233.7	2079.9	2048.8	1818.9
17.5°	2069.0	2041.1	2067.5	2132.7	2182.4	2299.0	2396.8	2441.8	2271.0	2235.2	1923.0
20°	2111.0	2103.2	2098.5	2131.2	2219.7	2375.1	2569.2	2651.5	2485.3	2448.1	2072.1
22.5°	2238.3	2239.9	2236.8	2188.6	2252.4	2427.9	2719.9	2923.4	2741.7	2710.5	2241.4
25°	2406.1	2385.9	2370.4	2331.6	2323.8	2476.0	2872.1	3255.8	3049.2	3027.4	2424.8
27.5°	2583.2	2583.2	2536.6	2500.9	2451.2	2595.6	3011.9	3578.9	3420.4	3390.9	2584.7
30°	2775.8	2786.7	2780.4	2704.3	2673.3	2726.1	3154.8	3992.1	3846.1	3808.8	2848.8
32.5°	3060.1	3036.8	3063.2	2999.5	2907.8	2954.4	3380.1	4361.8	4399.0	4346.2	3195.2
35°	3436.0	3421.9	3404.9	3300.8	3192.1	3229.4	3698.5	4816.9	5093.3	5066.9	3544.7
37.5°	3773.1	3765.2	3751.3	3679.9	3554.0	3599.1	4060.4	5290.6	5770.6	5683.6	4038.7
40°	4127.2	4169.2	4124.1	4060.4	3945.5	4044.9	4486.0	5571.8	6340.7	6235.1	4416.1
42.5°	4607.2	4574.5	4594.7	4478.2	4416.1	4524.8	4913.2	5852.9	6783.4	6657.6	4816.9
45°	5118.2	5119.8	5065.4	5028.1	4866.6	4984.6	5175.7	6008.3	7136.0	7038.2	5119.8
47.5°	5446.0	5444.4	5503.4	5562.5	5396.3	5279.8	5354.3	6155.9	7317.7	7272.7	5230.1
50°	5394.7	5410.2	5486.3	5706.9	5793.9	5637.1	5522.1	6112.4	7400.0	7395.4	5324.8
52.5°	4692.6	4743.8	4871.2	5189.6	5627.7	5821.9	5697.6	6193.1	7440.4	7448.2	5466.2
55°	3572.7	3600.7	3842.9	4229.7	4714.4	5379.2	5627.7	6256.8	7471.5	7485.5	5637.1
56°	3098.9	3024.3	3373.8	3648.8	4228.1	4955.1	5450.6	6207.1	7452.9	7560.1	5722.5
57.5°	2339.3	2289.6	2572.3	2915.6	3473.2	4240.6	4900.8	5972.5	7327.0	7325.5	5599.7
60°	1422.9	1373.2	1590.6	1792.5	2104.8	2611.1	3311.7	4756.3	6194.6	6325.2	4534.2
62.5°	846.6	877.7	1092.0	1214.7	1315.7	1368.5	1713.3	2827.0	4133.4	4226.6	2813.1
65°	563.9	574.7	736.3	938.2	983.3	782.9	697.4	1144.8	1792.5	1735.1	1160.3
67.5°	347.9	372.8	493.9	705.2	781.3	571.6	330.8	427.1	493.9	493.9	335.6
70°	211.3	223.7	329.3	480.0	535.9	368.1	240.8	240.8	237.7	233.0	200.4
72.5°	101.0	108.7	167.8	247.0	251.6	194.2	186.4	203.5	198.8	197.3	166.2
75°	43.5	46.6	59.0	77.7	88.6	82.3	113.4	146.0	150.7	146.0	119.6
77.5°	14.0	15.6	21.8	27.9	29.5	35.7	48.2	60.6	69.9	65.3	59.0
80°	1.5	3.1	6.2	14.0	21.8	27.9	35.7	40.4	45.1	45.1	42.0
82.5°	1.5	1.5	6.2	12.4	20.2	26.4	34.1	38.9	45.1	46.6	43.5
85°	0.0	1.5	4.6	10.8	17.1	17.1	15.6	15.6	10.8	10.8	10.8
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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: P652293

CATALOG NUMBER: GALN-SA3B-840-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6
2.5°	1415.1	1412.0	1370.1	1343.7	1329.6	1301.7	1284.6	1272.2	1262.8	1252.0	1253.5
5°	1433.7	1422.9	1352.9	1304.8	1247.3	1216.3	1189.8	1168.1	1154.1	1151.0	1144.8
7.5°	1486.6	1429.0	1323.4	1236.4	1163.4	1132.4	1109.1	1095.1	1101.3	1087.3	1098.2
10°	1526.9	1441.5	1287.7	1161.9	1088.8	1065.5	1053.2	1064.0	1079.6	1073.4	1065.5
12.5°	1576.6	1453.9	1230.2	1090.4	1022.1	1005.0	1026.8	1047.0	1078.0	1090.4	1074.9
15°	1632.5	1467.9	1157.2	1008.1	964.6	978.6	1015.8	1051.6	1082.7	1098.2	1107.5
17.5°	1700.9	1463.3	1085.8	942.8	910.2	950.7	995.7	1028.3	1074.9	1098.2	1092.0
20°	1764.6	1447.7	1006.6	877.7	879.2	916.4	953.8	1006.6	1031.4	1062.5	1051.6
22.5°	1825.1	1419.8	924.3	832.6	832.6	890.0	908.7	942.8	964.6	980.2	978.6
25°	1910.6	1367.0	855.9	789.1	807.7	845.0	860.5	871.4	862.1	874.6	876.1
27.5°	1971.1	1312.5	800.0	750.3	784.4	812.4	807.7	801.6	779.8	762.7	773.6
30°	2036.4	1248.9	751.8	723.8	742.5	767.3	748.7	730.1	695.9	667.9	669.5
32.5°	2129.6	1219.4	709.9	692.8	717.6	720.7	700.6	672.6	638.4	612.0	610.5
35°	2303.6	1200.7	674.1	672.6	677.3	678.8	658.6	624.4	610.5	588.7	596.4
37.5°	2477.6	1191.4	649.3	643.1	641.5	643.1	619.8	587.2	613.6	612.0	615.1
40°	2699.7	1233.3	613.6	605.8	607.4	607.4	577.9	568.5	615.1	619.8	621.3
42.5°	2924.9	1286.1	590.3	565.4	571.6	571.6	556.1	545.2	577.9	546.7	542.1
45°	3120.6	1363.8	565.4	525.0	540.6	548.3	543.7	525.0	504.9	452.0	452.0
47.5°	3184.4	1432.1	535.9	486.2	498.6	532.8	518.8	480.0	444.2	400.7	397.6
50°	3296.1	1506.7	512.6	441.1	467.5	509.5	495.5	456.7	416.3	385.3	386.8
52.5°	3411.1	1592.2	469.1	388.4	420.9	490.9	490.9	447.3	385.3	363.5	360.4
55°	3583.5	1589.1	391.4	318.4	375.9	462.9	470.6	400.7	344.8	327.7	327.7
56°	3608.4	1517.6	352.6	298.2	355.7	455.1	456.7	388.4	329.3	310.7	310.7
57.5°	3421.9	1370.1	309.2	273.4	330.8	441.1	442.7	377.4	316.9	290.5	287.4
60°	2632.9	927.4	257.9	243.9	299.8	397.6	405.4	343.3	278.0	257.9	256.3
62.5°	1486.6	514.2	226.8	220.6	257.9	338.6	362.0	299.8	236.1	225.2	228.3
65°	678.8	282.7	191.1	178.6	208.1	261.0	292.0	247.0	194.2	181.7	181.7
67.5°	248.5	192.6	163.1	141.4	146.0	169.3	189.5	160.0	128.9	110.3	115.0
70°	177.1	161.6	142.9	122.7	113.4	110.3	108.7	90.1	63.7	49.7	52.8
72.5°	142.9	133.6	119.6	104.0	88.6	74.6	63.7	46.6	29.5	20.2	18.7
75°	102.5	97.9	87.0	74.6	62.1	52.8	43.5	29.5	15.6	7.7	7.7
77.5°	52.8	52.8	51.3	46.6	38.9	31.0	24.9	17.1	9.3	3.1	3.1
80°	40.4	43.5	45.1	40.4	35.7	27.9	20.2	12.4	6.2	1.5	1.5
82.5°	38.9	45.1	48.2	42.0	35.7	26.4	20.2	12.4	6.2	1.5	1.5
85°	9.3	9.3	14.0	15.6	20.2	21.8	17.1	10.8	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	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)