

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: P939408

Luminaire Tested: **GALN-SB2A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6300 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

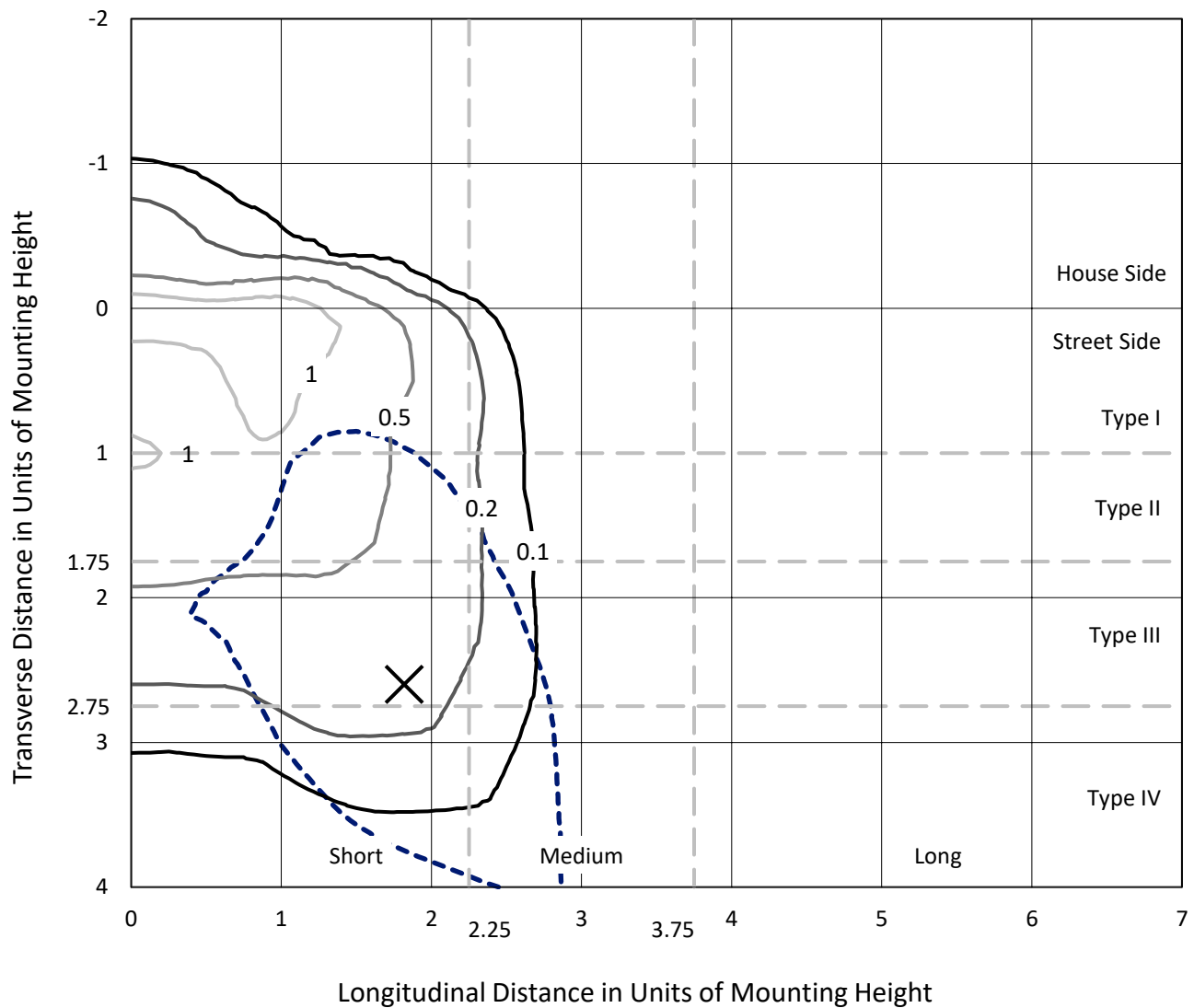


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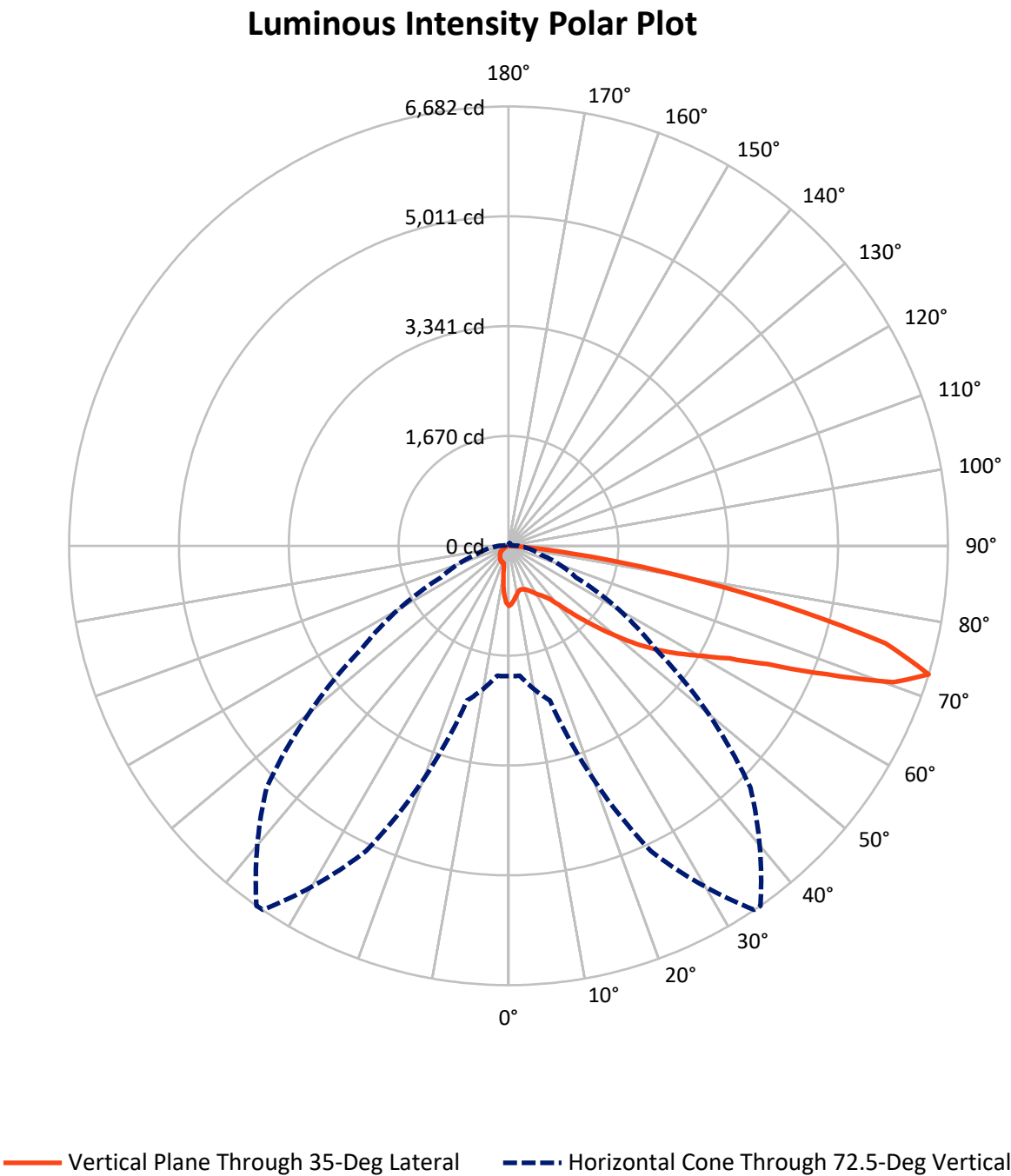
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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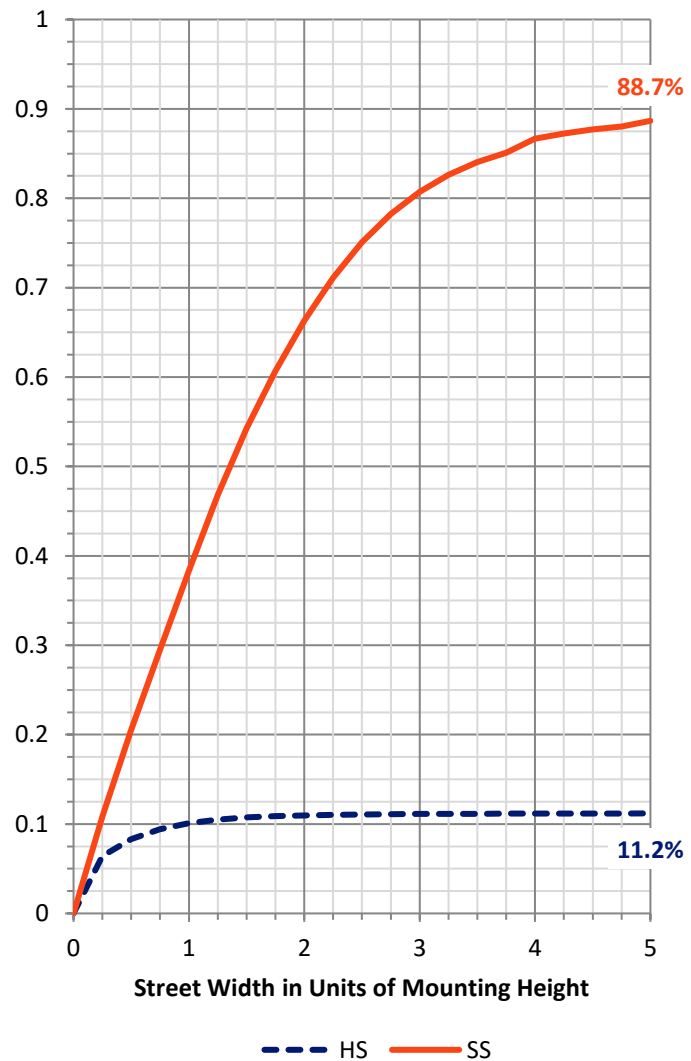
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.0	0.0	709.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5591.0	0.0	5591.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	6300.0	0.0	6300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.2
10°-20°	175.5	2.8
20°-30°	285.1	4.5
30°-40°	475.7	7.6
40°-50°	900.1	14.3
50°-60°	1430.3	22.7
60°-70°	1769.4	28.1
70°-80°	1099.9	17.5
80°-90°	88.9	1.4
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°	6300.0	100.0
0°-180°	6300.0	100.0

Coefficient of Utilization



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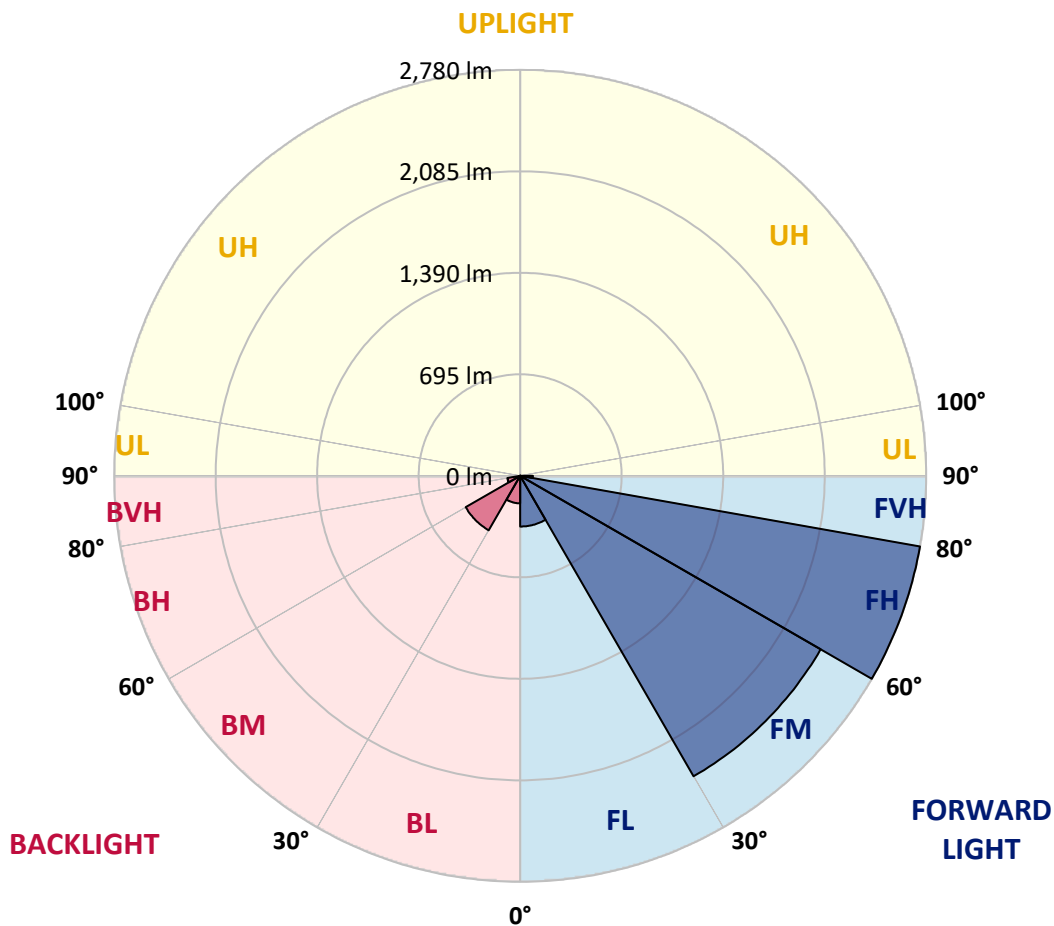
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.3	5.5			
FM	(30°-60°)	2375.7	37.7			
FH	(60°-80°)	2780.3	44.1			G2/5000
FVH	(80°-90°)	87.7	1.4			G1/100
BL	(0°-30°)	188.4	3.0	B1/500		
BM	(30°-60°)	430.5	6.8	B1/1000		
BH	(60°-80°)	89.0	1.4	B0/110		G0/110
BVH	(80°-90°)	1.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	872.5	879.8	881.2	883.5	883.5	886.3	890.9	897.4	908.0	913.5	917.2
5°	804.1	809.7	816.6	822.1	832.8	834.1	852.1	869.7	894.2	912.6	925.5
7.5°	735.4	741.8	751.1	764.4	778.3	782.4	809.7	839.2	878.0	912.6	934.3
10°	686.9	687.3	695.7	709.0	731.2	736.3	769.5	811.5	860.0	907.1	942.6
12.5°	659.7	662.9	666.6	676.7	698.0	701.2	736.7	786.1	842.0	903.8	952.3
15°	659.7	662.0	664.3	669.3	686.4	689.2	720.6	770.0	832.8	905.2	968.0
17.5°	666.6	670.3	668.4	674.4	692.4	694.3	722.0	765.4	832.3	914.0	992.0
20°	683.2	686.0	682.3	686.0	704.0	707.7	736.3	774.1	840.1	929.2	1022.0
22.5°	709.5	710.9	702.1	704.9	723.4	728.0	761.2	799.1	859.1	953.7	1062.2
25°	742.7	745.5	732.1	735.4	752.9	758.4	796.8	836.5	889.1	987.4	1113.4
27.5°	781.1	782.4	770.9	770.4	793.1	800.9	839.7	882.6	929.2	1029.9	1178.1
30°	824.9	829.1	818.0	816.1	844.8	851.2	889.5	939.4	988.3	1093.6	1269.9
32.5°	859.5	862.8	856.3	860.9	890.0	895.1	950.0	1019.7	1081.1	1184.1	1395.0
35°	909.4	911.2	896.5	904.8	938.0	950.9	1032.6	1132.3	1197.9	1297.6	1558.4
37.5°	1089.9	1089.9	1027.1	986.0	1017.9	1029.4	1145.7	1274.1	1341.9	1449.9	1764.3
40°	1339.6	1335.5	1243.6	1159.6	1155.4	1178.1	1306.8	1452.7	1528.0	1632.7	1996.0
42.5°	1606.0	1599.5	1474.4	1391.3	1377.5	1385.3	1492.9	1672.9	1749.5	1855.7	2245.3
45°	1842.3	1840.5	1726.0	1614.3	1589.4	1614.3	1725.1	1930.5	1985.4	2097.1	2494.1
47.5°	2040.4	2040.4	1956.8	1883.9	1870.9	1885.7	2039.4	2216.2	2211.2	2354.3	2736.5
50°	2268.4	2266.5	2187.1	2155.8	2169.1	2189.9	2401.3	2517.2	2444.7	2606.8	2953.0
52.5°	2428.1	2439.2	2412.0	2406.9	2475.2	2511.2	2768.8	2811.7	2653.8	2846.3	3115.0
55°	2554.6	2567.5	2598.9	2634.5	2766.0	2813.1	3124.7	3091.0	2828.8	3054.1	3208.2
57.5°	2733.7	2715.2	2763.7	2833.9	3046.7	3103.5	3469.5	3354.6	2969.6	3222.6	3218.4
60°	2951.1	2953.9	2962.2	3050.8	3326.9	3399.8	3809.3	3603.9	3060.1	3326.0	3105.8
62.5°	3212.4	3216.6	3233.6	3369.8	3703.1	3771.9	4171.2	3807.9	3101.6	3296.9	2814.9
65°	3194.4	3211.9	3402.6	3868.4	4275.0	4342.9	4593.6	3951.0	3038.8	3031.0	2291.9
67.5°	2910.0	2938.7	3257.6	4463.9	5137.4	5213.1	5104.1	3979.2	2767.9	2357.0	1495.2
70°	2537.1	2547.2	2930.8	4999.3	6135.8	6212.5	5561.1	3669.4	2100.4	1314.7	669.8
72.5°	1981.3	1983.6	2433.7	5123.5	6677.8	6681.9	5202.4	2724.0	1129.6	505.0	232.7
75°	1415.3	1401.5	1630.0	4155.0	5875.0	5922.1	3900.2	1277.8	431.6	238.7	115.9
77.5°	758.9	774.1	922.3	2464.1	4058.5	4138.9	2128.1	368.4	219.7	162.5	76.6
80°	234.5	247.4	378.1	1128.2	2298.9	2347.3	788.9	163.9	153.3	115.9	50.3
82.5°	73.9	76.6	176.3	474.1	954.2	976.3	228.5	92.8	104.8	76.6	29.5
85°	21.2	21.7	78.5	176.8	235.9	240.5	64.2	36.0	60.0	47.5	15.2
87.5°	2.3	7.4	29.5	29.5	20.8	20.3	6.9	7.8	17.1	6.0	2.8
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°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	914.9	915.4	909.4	899.2	888.2	878.9	867.4	858.1	851.7	849.8	853.1
5°	921.4	918.2	901.1	870.2	833.2	801.4	765.8	737.7	719.2	711.4	714.1
7.5°	931.1	921.9	884.5	823.5	752.9	690.1	626.4	577.0	545.6	529.9	532.2
10°	939.4	920.9	856.8	756.1	648.1	553.0	467.2	407.6	374.4	358.7	359.1
12.5°	947.2	920.5	820.8	676.3	529.9	413.6	333.8	304.2	295.0	291.7	290.8
15°	962.0	921.9	775.5	584.9	412.2	312.5	283.4	283.0	284.8	283.9	283.4
17.5°	982.3	923.2	724.3	487.9	318.1	275.6	274.2	278.4	281.1	279.7	279.3
20°	1008.6	928.8	669.8	391.9	273.3	266.4	269.6	273.3	275.6	273.3	272.8
22.5°	1045.6	938.5	610.3	314.8	259.0	260.8	263.6	267.7	270.0	266.8	266.4
25°	1090.8	953.7	551.6	273.7	252.0	254.4	258.5	263.1	265.9	262.7	262.2
27.5°	1149.4	978.2	497.6	264.5	245.1	246.5	252.5	259.4	263.1	259.0	259.0
30°	1234.4	1018.3	451.0	268.7	241.0	237.7	246.0	255.7	259.9	256.2	255.7
32.5°	1347.0	1075.1	422.4	275.1	239.1	227.6	235.4	247.9	254.8	252.5	252.5
35°	1494.7	1161.4	411.3	282.5	237.7	217.0	222.5	235.9	247.9	250.2	250.2
37.5°	1673.8	1281.5	414.5	285.7	233.6	208.2	211.0	222.5	238.2	245.6	247.4
40°	1877.4	1421.3	433.0	282.5	229.0	200.8	201.3	210.0	223.9	235.0	238.7
42.5°	2087.4	1584.7	467.2	270.5	224.8	194.3	193.0	199.0	208.2	216.0	219.3
45°	2287.3	1752.8	500.9	253.9	219.7	187.9	184.6	187.0	188.8	192.0	193.9
47.5°	2461.8	1870.9	491.2	238.7	212.8	180.5	175.0	174.0	168.5	168.0	167.6
50°	2582.3	1896.8	436.2	223.4	202.7	172.2	163.4	157.9	148.2	143.6	144.0
52.5°	2620.6	1794.8	356.4	208.2	186.0	161.1	148.6	139.9	127.9	123.7	123.3
55°	2569.8	1594.9	284.8	189.7	163.0	146.3	132.5	120.9	111.3	106.2	106.2
57.5°	2445.7	1340.5	225.3	168.0	138.5	129.7	115.9	104.3	96.0	90.9	90.0
60°	2239.8	1064.5	178.2	142.2	118.2	111.7	97.4	90.0	82.6	76.6	75.2
62.5°	1927.3	759.8	139.9	112.6	98.8	91.4	83.1	77.6	68.8	60.5	59.1
65°	1504.0	464.8	108.0	82.6	79.4	75.7	70.6	65.5	54.9	46.6	45.2
67.5°	948.6	220.2	77.1	62.3	62.8	60.9	58.6	54.5	46.6	39.2	38.3
70°	417.8	106.6	50.8	47.5	46.6	46.6	48.5	47.1	39.7	32.8	31.4
72.5°	142.2	57.2	37.9	36.0	33.7	33.2	40.6	39.2	31.9	25.4	24.0
75°	74.3	38.3	27.7	25.9	20.3	24.5	32.3	30.5	22.6	16.6	15.2
77.5°	48.5	27.2	18.9	16.6	11.5	16.2	24.0	21.2	13.4	8.3	7.4
80°	30.5	18.0	11.1	7.8	5.5	8.8	12.9	9.2	5.1	1.8	1.4
82.5°	16.2	9.2	4.2	2.8	2.3	2.8	3.2	2.3	0.9	0.0	0.0
85°	6.5	3.2	1.4	0.9	0.5	0.0	0.9	0.5	0.0	0.0	0.0
87.5°	2.3	0.5	0.0	0.0	0.0	0.0	0.0	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)