

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: P529565

Luminaire Tested: **GALN-SA4D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529565
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-SA4D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 15097 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

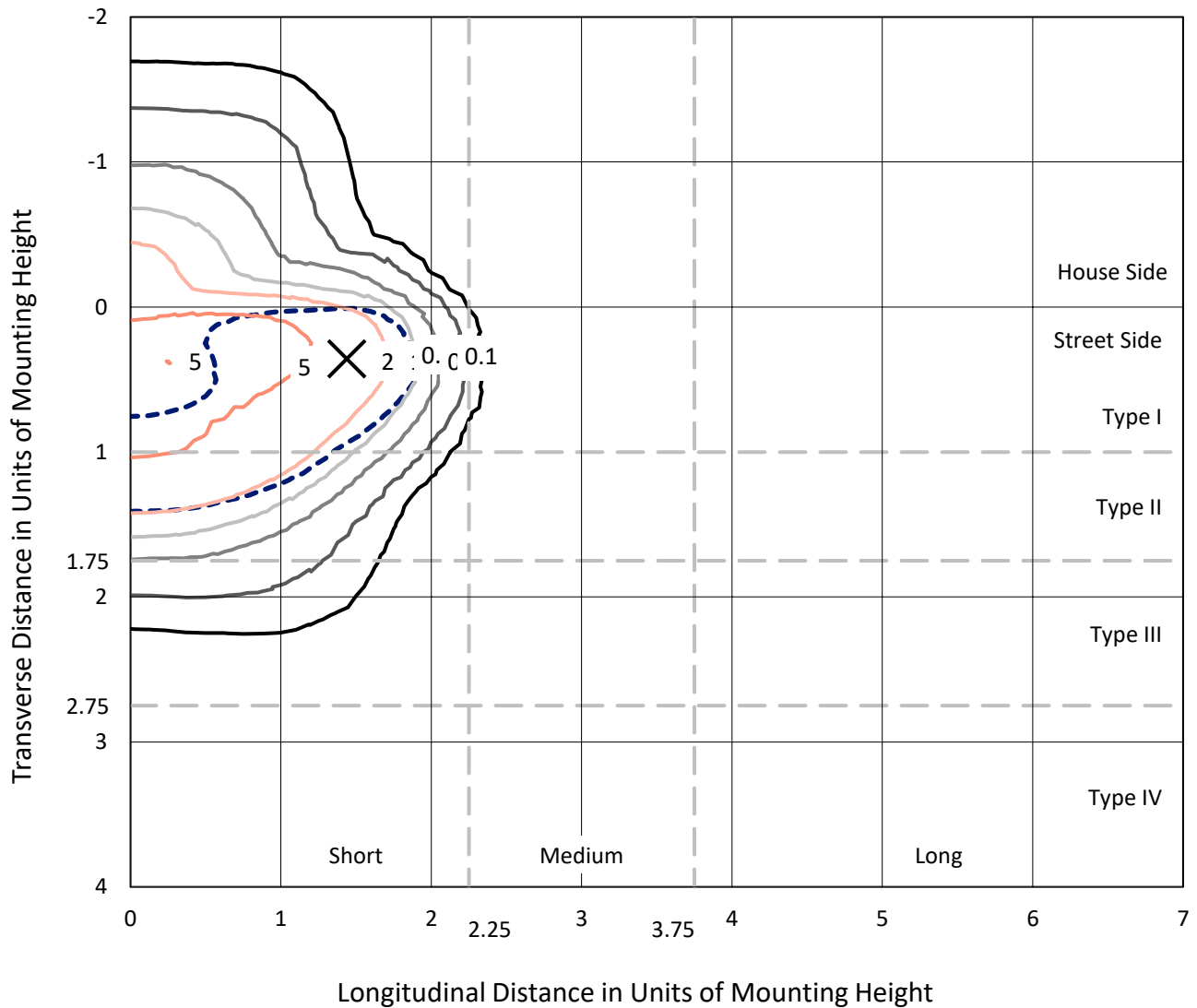
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529565
 CATALOG NUMBER: GALN-SA4D-727-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

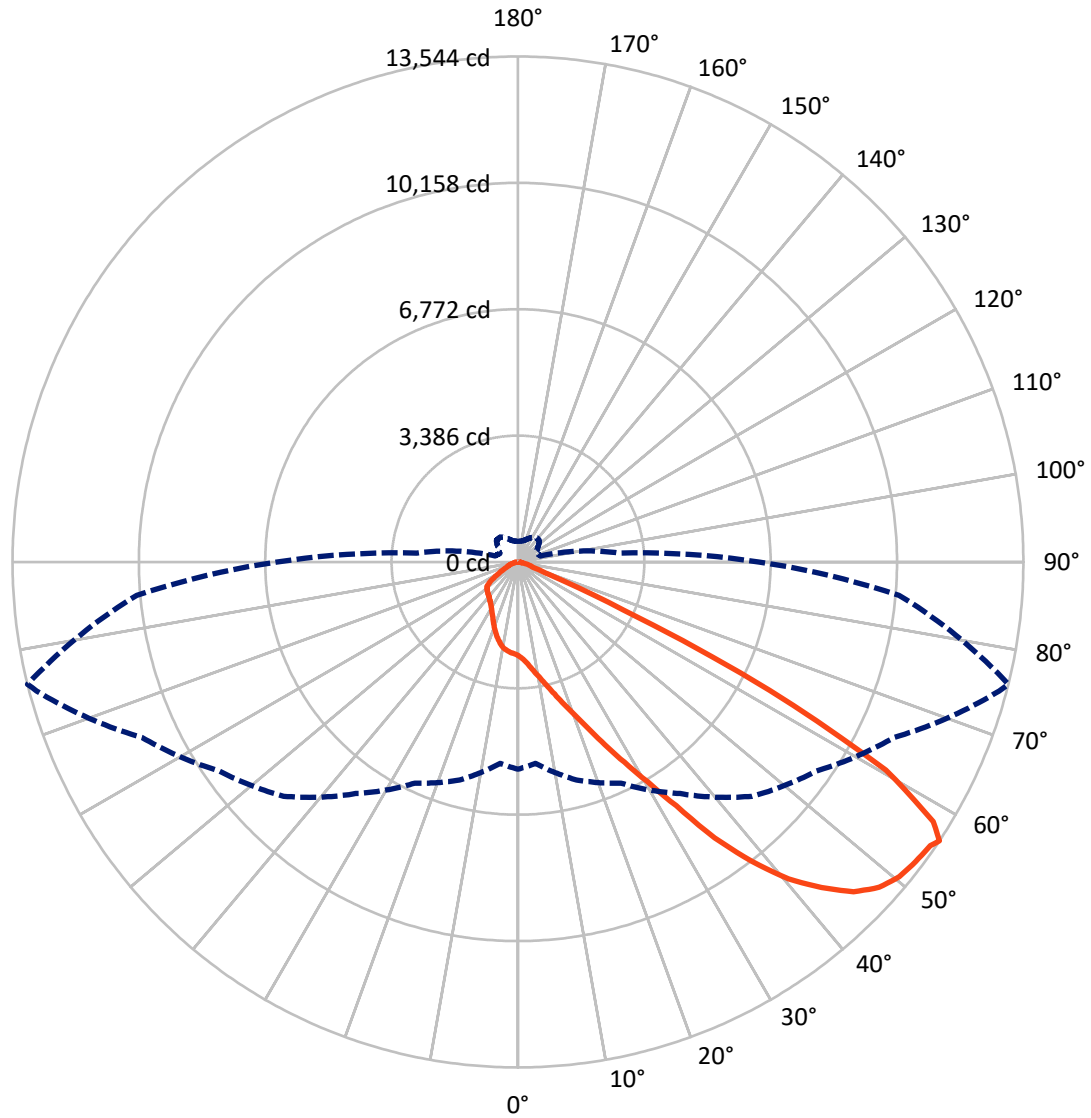
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

REPORT NUMBER: P529565
CATALOG NUMBER: GALN-SA4D-727-U-T2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529565
 CATALOG NUMBER: GALN-SA4D-727-U-T2-GRSBK

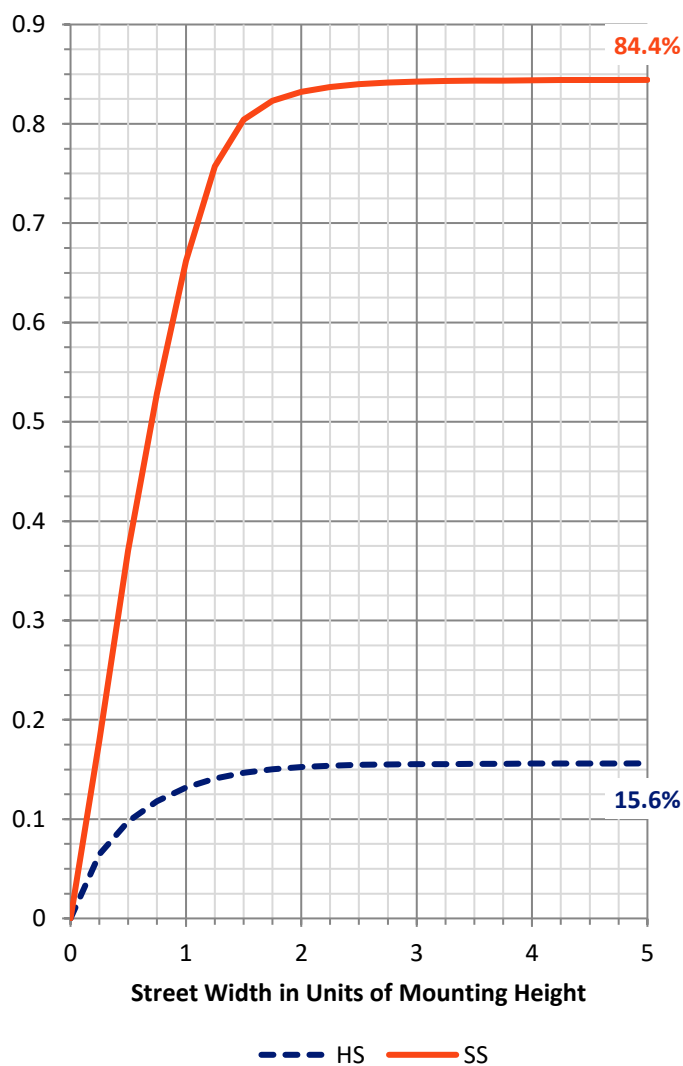
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2371.7	0.0	2371.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12725.3	0.0	12725.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	15097.0	0.0	15097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	1.7
10°-20°	813.3	5.4
20°-30°	1474.6	9.8
30°-40°	2543.1	16.8
40°-50°	4131.3	27.4
50°-60°	4354.6	28.8
60°-70°	1330.5	8.8
70°-80°	170.6	1.1
80°-90°	25.9	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°	15097.0	100.0
0°-180°	15097.0	100.0

Coefficient of Utilization

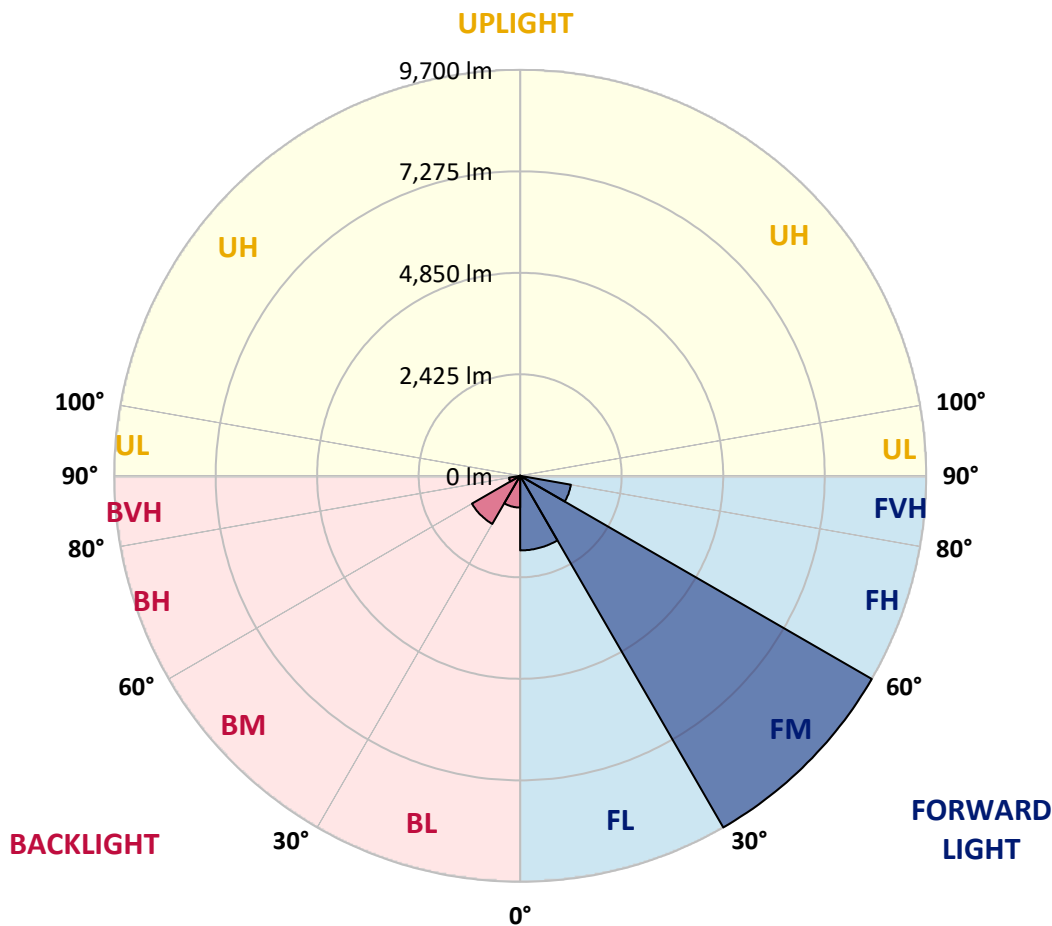


REPORT NUMBER: P529565
 CATALOG NUMBER: GALN-SA4D-727-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.3	11.8			
FM (30°-60°)	9699.8	64.2			
FH (60°-80°)	1230.5	8.2			G1/1800
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	758.7	5.0	B2/1000		
BM (30°-60°)	1329.2	8.8	B2/2500		
BH (60°-80°)	270.6	1.8	B1/500		G1/500
BVH (80°-90°)	13.2	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 II Short





REPORT NUMBER: P529565

CATALOG NUMBER: GALN-SA4D-727-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9
2.5°	2894.2	2827.4	2830.2	2824.6	2816.2	2785.6	2693.8	2679.9	2618.7	2602.0	2546.3
5°	3242.0	3183.6	3217.0	3166.9	3119.6	3091.8	2941.5	2871.9	2774.5	2738.3	2660.4
7.5°	3459.1	3431.3	3420.1	3422.9	3378.4	3308.8	3242.0	3089.0	2958.2	2930.3	2766.2
10°	3564.8	3548.1	3564.8	3556.5	3576.0	3584.3	3467.4	3375.6	3183.6	3136.3	2880.3
12.5°	3589.9	3623.3	3637.2	3673.4	3720.7	3801.4	3793.0	3667.8	3411.8	3381.2	3055.6
15°	3651.1	3678.9	3665.0	3723.5	3812.5	3948.9	4021.2	4001.7	3726.2	3670.6	3258.7
17.5°	3706.8	3656.7	3704.0	3820.9	3909.9	4118.6	4293.9	4374.6	4068.5	4004.5	3445.2
20°	3781.9	3768.0	3759.6	3818.1	3976.7	4255.0	4602.8	4750.3	4452.6	4385.8	3712.3
22.5°	4010.1	4012.9	4007.3	3921.0	4035.1	4349.6	4872.8	5237.3	4911.7	4856.1	4015.7
25°	4310.6	4274.5	4246.6	4177.1	4163.2	4435.9	5145.5	5832.9	5462.7	5423.8	4344.0
27.5°	4627.9	4627.9	4544.4	4480.4	4391.3	4650.2	5396.0	6411.7	6127.8	6075.0	4630.7
30°	4973.0	4992.4	4981.3	4845.0	4789.3	4883.9	5652.0	7151.9	6890.3	6823.6	5103.8
32.5°	5482.2	5440.5	5487.8	5373.7	5209.5	5293.0	6055.5	7814.3	7881.0	7786.4	5724.3
35°	6155.7	6130.6	6100.0	5913.6	5718.8	5785.6	6626.0	8629.6	9125.0	9077.7	6350.5
37.5°	6759.6	6745.6	6720.6	6592.6	6367.2	6447.9	7274.4	9478.4	10338.3	10182.5	7235.4
40°	7394.0	7469.2	7388.5	7274.4	7068.5	7246.6	8036.9	9982.1	11359.6	11170.4	7911.7
42.5°	8253.9	8195.5	8231.7	8023.0	7911.7	8106.5	8802.2	10485.8	12152.7	11927.3	8629.6
45°	9169.5	9172.3	9074.9	9008.1	8718.7	8930.2	9272.5	10764.1	12784.4	12609.1	9172.3
47.5°	9756.7	9753.9	9859.7	9965.4	9667.6	9458.9	9592.5	11028.5	13110.0	13029.3	9369.9
50°	9664.9	9692.7	9829.0	10224.2	10380.1	10099.0	9893.1	10950.5	13257.5	13249.2	9539.6
52.5°	8407.0	8498.8	8727.0	9297.5	10082.3	10430.1	10207.5	11095.2	13329.9	13343.8	9792.9
55°	6400.6	6450.7	6884.8	7577.7	8446.0	9637.0	10082.3	11209.3	13385.5	13410.6	10099.0
56°	5551.8	5418.2	6044.4	6536.9	7574.9	8877.3	9765.0	11120.3	13352.1	13544.2	10252.0
57.5°	4191.0	4101.9	4608.4	5223.4	6222.5	7597.2	8779.9	10700.1	13126.7	13123.9	10032.2
60°	2549.1	2460.0	2849.6	3211.4	3770.8	4678.0	5933.0	8521.1	11098.0	11331.8	8123.2
62.5°	1516.7	1572.3	1956.3	2176.2	2357.1	2451.7	3069.5	5064.8	7405.2	7572.1	5039.8
65°	1010.2	1029.7	1319.1	1680.8	1761.5	1402.6	1249.5	2051.0	3211.4	3108.4	2078.8
67.5°	623.4	667.9	884.9	1263.4	1399.8	1024.1	592.7	765.3	884.9	884.9	601.1
70°	378.5	400.7	590.0	859.9	960.1	659.5	431.3	431.3	425.8	417.4	359.0
72.5°	180.9	194.8	300.5	442.5	450.8	347.9	333.9	364.6	356.2	353.4	297.8
75°	77.9	83.5	105.7	139.1	158.6	147.5	203.1	261.6	269.9	261.6	214.3
77.5°	25.0	27.8	39.0	50.1	52.9	64.0	86.3	108.5	125.2	116.9	105.7
80°	2.8	5.6	11.1	25.0	39.0	50.1	64.0	72.4	80.7	80.7	75.1
82.5°	2.8	2.8	11.1	22.3	36.2	47.3	61.2	69.6	80.7	83.5	77.9
85°	0.0	2.8	8.3	19.5	30.6	30.6	27.8	27.8	19.5	19.5	19.5
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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: P529565

CATALOG NUMBER: GALN-SA4D-727-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9
2.5°	2535.2	2529.6	2454.5	2407.2	2382.1	2332.0	2301.4	2279.2	2262.5	2243.0	2245.8
5°	2568.6	2549.1	2423.9	2337.6	2234.6	2179.0	2131.7	2092.7	2067.7	2062.1	2051.0
7.5°	2663.2	2560.2	2371.0	2215.2	2084.4	2028.7	1987.0	1961.9	1973.0	1948.0	1967.5
10°	2735.5	2582.5	2307.0	2081.6	1950.8	1909.0	1886.8	1906.3	1934.1	1923.0	1909.0
12.5°	2824.6	2604.8	2204.0	1953.6	1831.1	1800.5	1839.5	1875.6	1931.3	1953.6	1925.7
15°	2924.8	2629.8	2073.2	1806.1	1728.2	1753.2	1820.0	1884.0	1939.7	1967.5	1984.2
17.5°	3047.2	2621.4	1945.2	1689.2	1630.8	1703.1	1783.8	1842.3	1925.7	1967.5	1956.3
20°	3161.3	2593.6	1803.3	1572.3	1575.1	1641.9	1708.7	1803.3	1847.8	1903.5	1884.0
22.5°	3269.9	2543.5	1655.8	1491.6	1491.6	1594.6	1628.0	1689.2	1728.2	1756.0	1753.2
25°	3422.9	2448.9	1533.4	1413.7	1447.1	1513.9	1541.7	1561.2	1544.5	1566.7	1569.5
27.5°	3531.4	2351.5	1433.2	1344.1	1405.3	1455.4	1447.1	1436.0	1397.0	1366.4	1385.9
30°	3648.3	2237.4	1346.9	1296.8	1330.2	1374.7	1341.3	1307.9	1246.7	1196.6	1199.4
32.5°	3815.3	2184.5	1271.8	1241.2	1285.7	1291.2	1255.1	1205.0	1143.8	1096.4	1093.7
35°	4127.0	2151.1	1207.8	1205.0	1213.3	1216.1	1179.9	1118.7	1093.7	1054.7	1068.6
37.5°	4438.7	2134.5	1163.2	1152.1	1149.3	1152.1	1110.4	1051.9	1099.2	1096.4	1102.0
40°	4836.6	2209.6	1099.2	1085.3	1088.1	1088.1	1035.2	1018.5	1102.0	1110.4	1113.1
42.5°	5240.1	2304.2	1057.5	1013.0	1024.1	1024.1	996.3	976.8	1035.2	979.6	971.2
45°	5590.8	2443.3	1013.0	940.6	968.4	982.3	974.0	940.6	904.4	809.8	809.8
47.5°	5704.9	2565.8	960.1	871.0	893.3	954.5	929.5	859.9	795.9	718.0	712.4
50°	5905.2	2699.4	918.3	790.3	837.6	912.8	887.7	818.2	745.8	690.1	692.9
52.5°	6111.2	2852.4	840.4	695.7	754.2	879.4	879.4	801.5	690.1	651.2	645.6
55°	6420.0	2846.9	701.3	570.5	673.5	829.3	843.2	718.0	617.8	587.2	587.2
56°	6464.6	2718.8	631.7	534.3	637.3	815.4	818.2	695.7	590.0	556.6	556.6
57.5°	6130.6	2454.5	553.8	489.8	592.7	790.3	793.1	676.2	567.7	520.4	514.8
60°	4716.9	1661.4	462.0	436.9	537.1	712.4	726.3	615.0	498.1	462.0	459.2
62.5°	2663.2	921.1	406.3	395.2	462.0	606.7	648.4	537.1	423.0	403.5	409.1
65°	1216.1	506.5	342.3	320.0	372.9	467.5	523.2	442.5	347.9	325.6	325.6
67.5°	445.3	345.1	292.2	253.2	261.6	303.3	339.5	286.6	231.0	197.6	205.9
70°	317.2	289.4	256.0	219.8	203.1	197.6	194.8	161.4	114.1	89.1	94.6
72.5°	256.0	239.3	214.3	186.5	158.6	133.6	114.1	83.5	52.9	36.2	33.4
75°	183.7	175.3	155.8	133.6	111.3	94.6	77.9	52.9	27.8	13.9	13.9
77.5°	94.6	94.6	91.8	83.5	69.6	55.7	44.5	30.6	16.7	5.6	5.6
80°	72.4	77.9	80.7	72.4	64.0	50.1	36.2	22.3	11.1	2.8	2.8
82.5°	69.6	80.7	86.3	75.1	64.0	47.3	36.2	22.3	11.1	2.8	2.8
85°	16.7	16.7	25.0	27.8	36.2	39.0	30.6	19.5	8.3	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	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)