

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: P450940

Luminaire Tested: **GALN-SA1D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

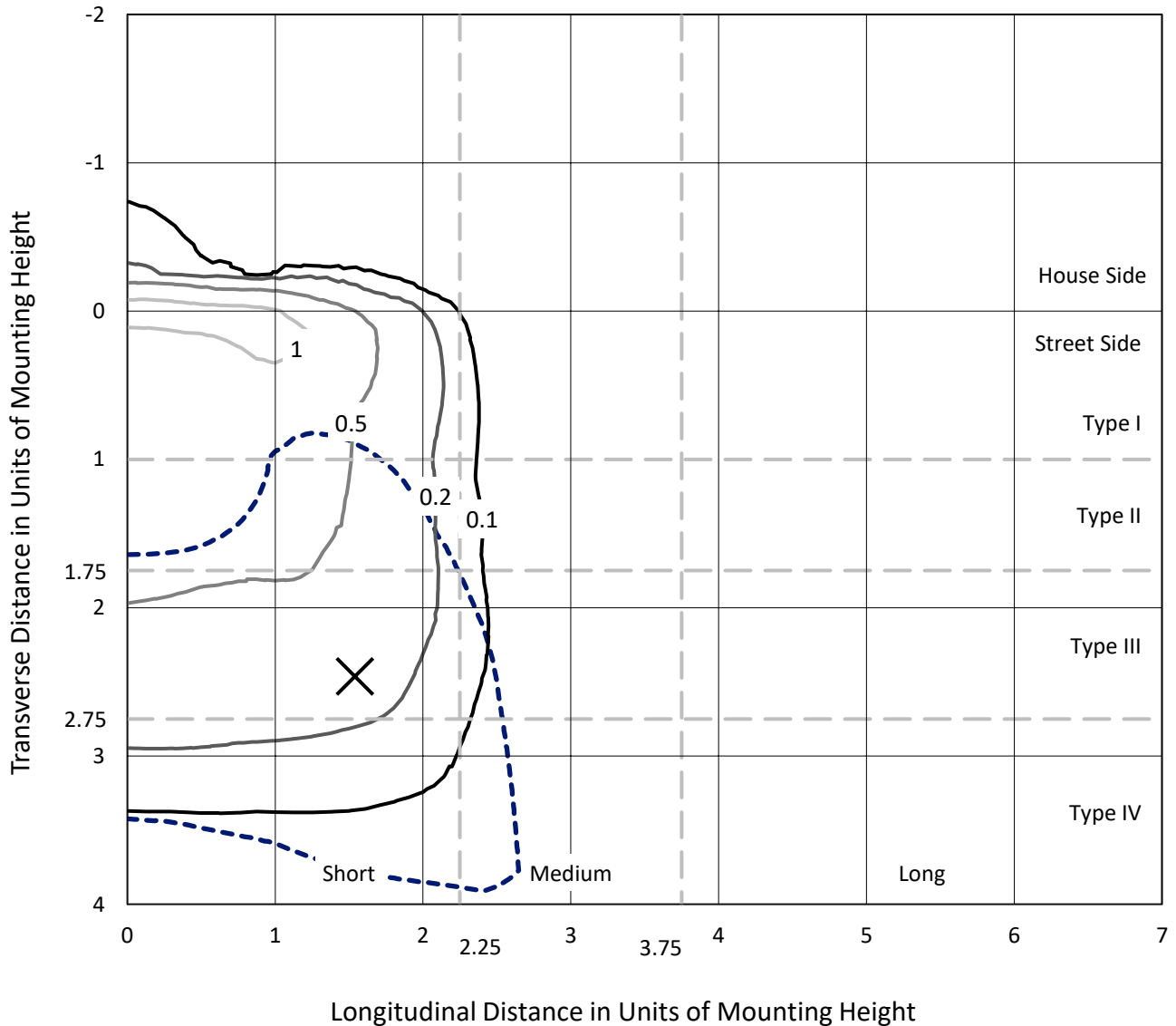
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

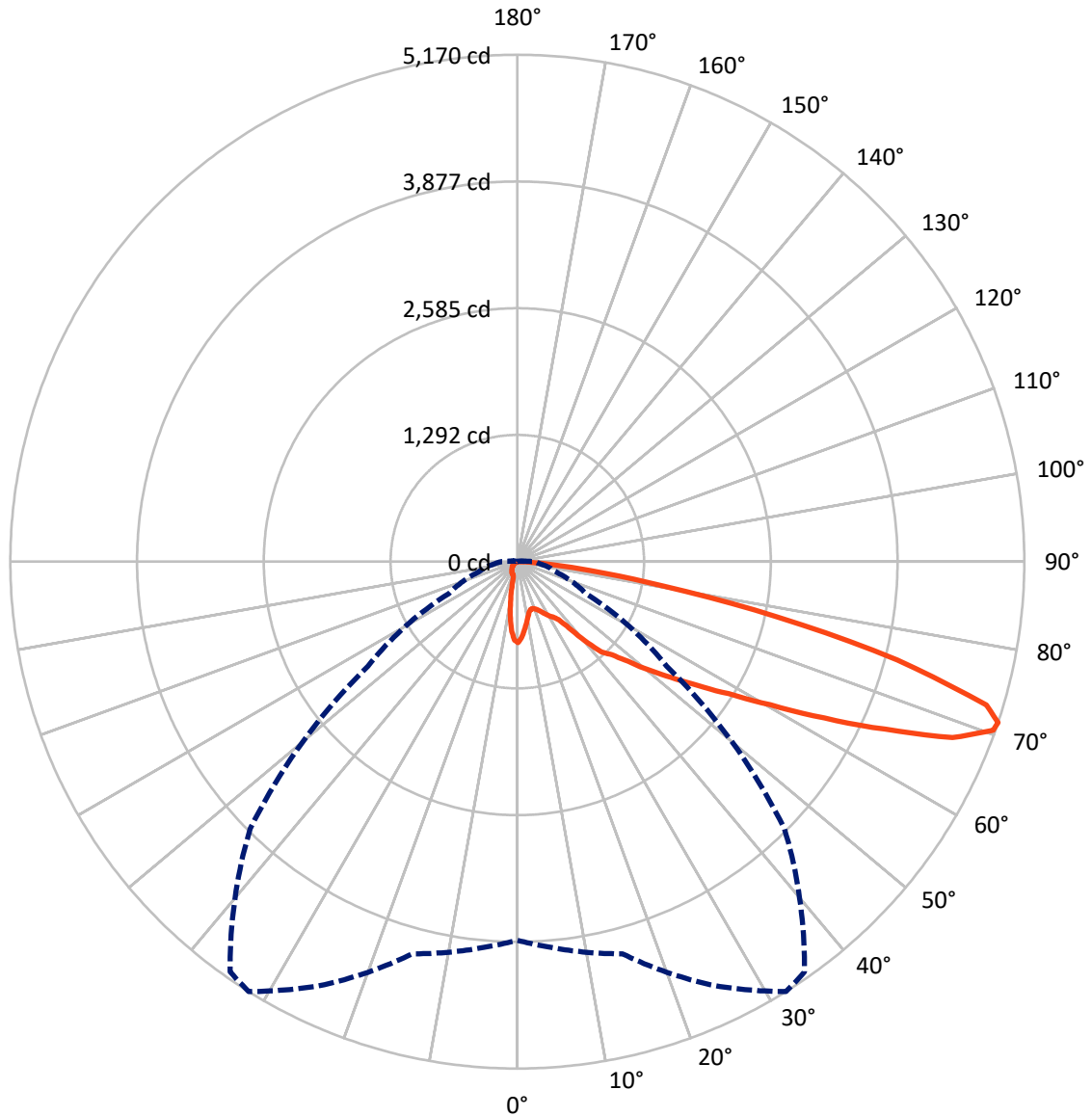
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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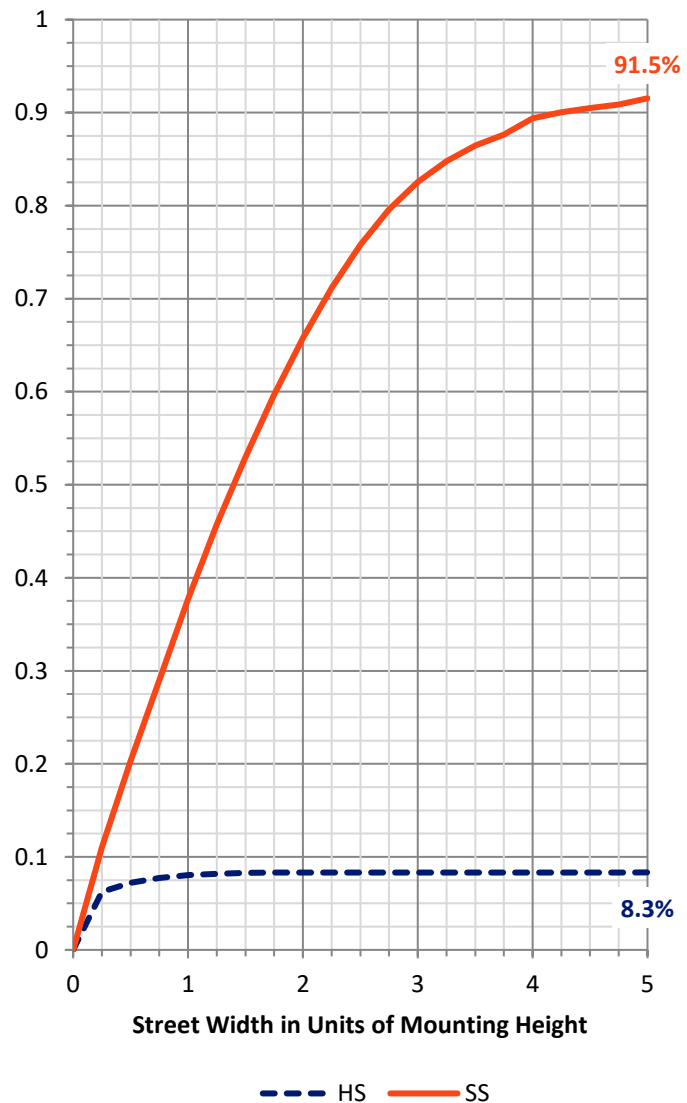
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	430.0	0.0	430.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4703.1	0.0	4703.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	5133.0	0.0	5133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.3
10°-20°	145.7	2.8
20°-30°	226.6	4.4
30°-40°	377.6	7.4
40°-50°	702.3	13.7
50°-60°	1127.6	22.0
60°-70°	1516.7	29.5
70°-80°	899.9	17.5
80°-90°	69.6	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°	5133.0	100.0
0°-180°	5133.0	100.0

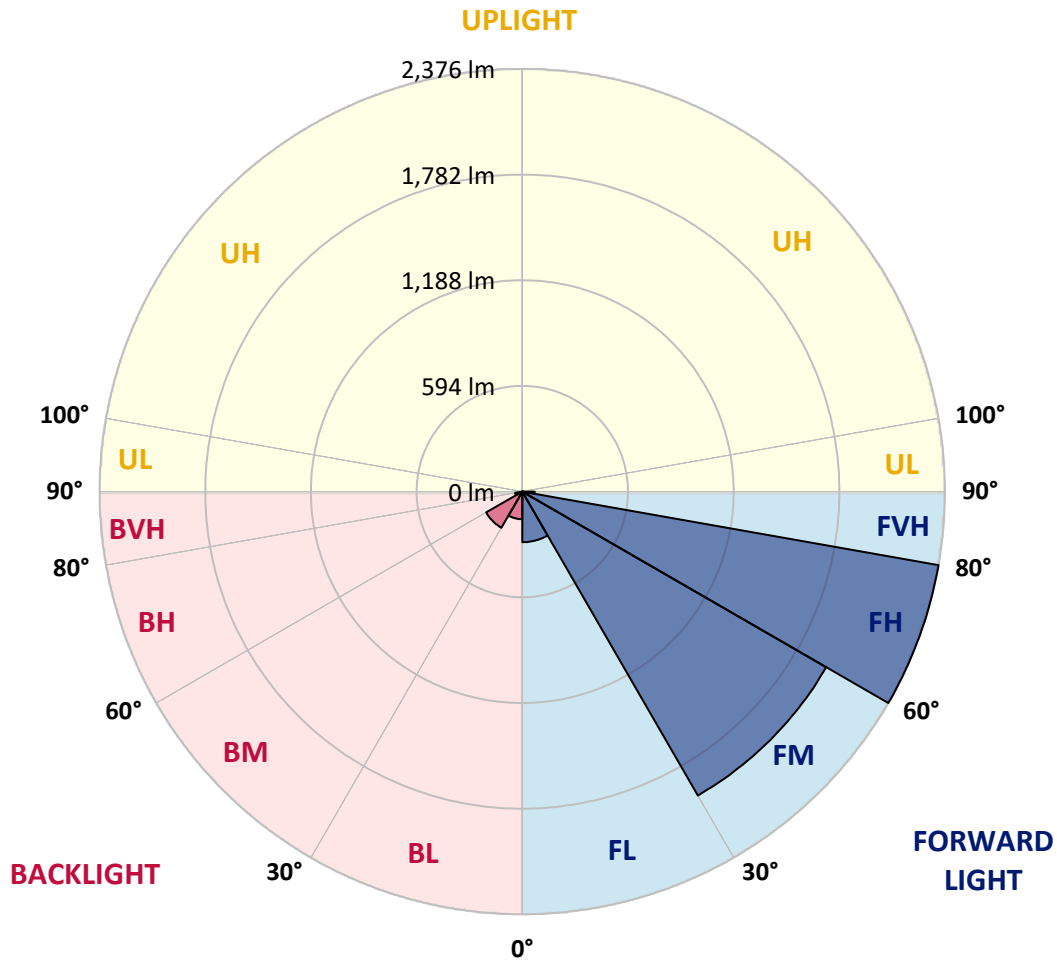


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.5	5.5			
FM	(30°-60°)	1972.9	38.4			
FH	(60°-80°)	2376.3	46.3			G2/5000
FVH	(80°-90°)	69.3	1.3			G1/100
BL	(0°-30°)	154.9	3.0	B1/500		
BM	(30°-60°)	234.5	4.6	B1/1000		
BH	(60°-80°)	40.2	0.8	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	32°	35°	45°	55°	65°	75°	85°
0°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5
2.5°	765.6	773.5	772.3	775.0	781.7	784.5	792.0	800.2	811.7	819.6	824.7
5°	685.6	691.5	692.3	706.1	712.8	720.3	742.3	766.4	793.2	814.4	828.6
7.5°	600.1	603.2	609.5	627.7	644.6	652.1	685.6	727.4	769.5	809.3	834.9
10°	529.6	533.1	544.5	563.8	579.6	589.5	635.9	688.3	747.5	806.6	844.0
12.5°	489.4	491.3	495.7	513.0	533.1	543.7	593.8	653.7	729.7	807.7	859.4
15°	486.6	485.8	480.7	487.8	505.9	517.0	565.8	630.0	714.0	811.7	877.5
17.5°	501.2	499.2	487.0	487.0	502.0	511.0	554.0	617.4	706.1	820.7	903.1
20°	523.6	520.5	500.4	498.8	513.4	522.9	561.1	618.2	707.7	837.7	937.4
22.5°	552.0	548.5	518.1	518.9	534.7	544.1	581.6	632.4	717.5	858.6	974.0
25°	589.1	585.1	549.3	547.7	564.2	572.5	611.9	657.6	731.3	884.6	1022.1
27.5°	638.3	630.0	587.1	584.7	602.5	613.1	648.6	691.5	755.7	920.4	1086.7
30°	678.9	669.8	628.9	622.5	641.5	649.7	686.4	737.2	803.8	983.1	1176.1
32.5°	732.1	718.7	670.6	654.1	674.2	684.8	741.1	822.3	875.1	1049.3	1282.5
35°	851.9	843.6	784.9	727.0	725.8	739.2	821.9	908.2	948.4	1152.5	1427.5
37.5°	1023.3	1017.4	955.1	877.5	855.0	848.7	920.0	1002.8	1065.4	1294.3	1596.2
40°	1222.2	1208.5	1151.3	1085.5	1056.4	1037.8	1035.9	1143.4	1218.3	1487.0	1771.9
42.5°	1364.9	1339.7	1270.3	1265.6	1259.3	1240.0	1184.0	1349.1	1415.7	1694.3	1959.8
45°	1514.6	1476.4	1373.2	1355.4	1353.1	1351.9	1407.8	1592.6	1630.8	1918.9	2152.9
47.5°	1630.8	1600.5	1515.8	1507.9	1517.8	1544.5	1703.7	1851.1	1843.2	2119.0	2314.9
50°	1785.7	1762.8	1668.7	1683.6	1734.5	1778.2	2037.5	2132.8	2017.8	2276.6	2432.7
52.5°	1968.5	1926.4	1838.9	1879.5	1957.5	2030.4	2391.7	2379.5	2140.3	2395.2	2520.5
55°	2126.9	2097.0	2067.0	2109.2	2225.8	2316.8	2711.6	2564.3	2229.4	2490.6	2559.1
57.5°	2394.8	2387.7	2357.0	2400.0	2541.4	2636.0	2998.1	2707.7	2286.5	2540.2	2513.8
60°	2791.2	2779.8	2722.7	2777.4	2961.8	3110.4	3262.1	2836.5	2299.5	2520.9	2383.4
62.5°	3268.0	3229.0	3180.1	3260.9	3513.8	3579.3	3510.7	2913.0	2251.0	2367.3	2069.0
65°	3713.2	3673.0	3674.2	3844.4	4119.8	4164.4	3800.7	2901.5	2109.2	1982.3	1526.0
67.5°	4054.0	4047.3	4095.4	4427.6	4787.7	4757.0	4060.0	2730.5	1688.8	1284.9	810.9
70°	4071.4	4084.4	4222.3	4783.0	5148.6	5099.8	4037.9	2219.5	1052.8	591.0	319.5
71°	3861.8	3949.2	4139.9	4771.9	5169.9	5106.5	3851.9	1859.0	772.3	412.1	230.5
72.5°	3290.8	3336.9	3749.1	4491.0	5001.7	4866.1	3380.3	1303.0	494.5	252.2	132.4
75°	1812.5	1926.0	2510.7	3523.3	4000.5	3881.5	2203.0	619.0	246.7	137.9	54.8
77.5°	862.9	840.8	1225.0	2095.4	2712.4	2706.1	1109.9	275.0	143.8	93.4	27.6
80°	246.7	277.4	468.9	996.1	1505.9	1522.5	426.3	132.8	99.7	72.9	14.2
82.5°	74.5	76.0	172.2	440.5	749.0	706.1	160.0	67.8	71.7	57.9	8.3
85°	13.0	16.2	50.8	155.2	285.7	216.7	40.2	32.3	47.3	38.2	4.7
87.5°	0.8	1.2	16.9	17.7	25.2	14.6	7.1	4.7	10.2	10.2	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°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5
2.5°	828.2	830.6	829.0	825.5	819.6	812.5	803.0	795.1	788.4	784.9	789.2
5°	833.3	836.5	828.6	810.9	784.1	754.9	721.8	696.2	676.1	669.8	667.5
7.5°	841.2	843.2	821.9	782.5	725.8	656.8	596.5	545.7	506.3	494.5	477.2
10°	851.5	850.3	810.1	736.8	637.1	533.5	440.1	370.8	318.4	299.5	297.9
12.5°	867.2	860.9	795.1	674.6	531.5	396.0	280.5	219.5	186.4	175.3	173.0
15°	886.9	872.0	771.5	601.7	407.0	255.7	173.0	154.5	150.1	149.3	148.5
17.5°	910.2	886.5	740.4	512.2	286.1	165.9	144.6	144.2	144.6	143.8	143.4
20°	941.7	901.9	703.3	406.2	189.1	139.9	137.9	137.9	138.3	137.9	137.9
22.5°	975.2	920.0	657.6	310.1	142.6	132.8	132.4	133.2	134.0	133.6	133.6
25°	1016.6	943.7	597.3	212.4	127.7	126.9	127.3	128.8	130.4	130.8	130.4
27.5°	1076.5	972.8	532.7	146.2	117.0	117.8	121.8	125.7	128.1	128.4	128.4
30°	1143.8	1005.1	448.4	118.6	108.4	108.4	113.1	120.6	125.7	126.5	126.9
32.5°	1230.5	1042.6	355.0	106.8	100.1	99.3	103.6	112.7	122.1	124.9	124.9
35°	1337.7	1086.7	264.0	99.3	94.2	92.2	94.6	102.1	114.3	122.1	122.9
37.5°	1463.4	1128.5	193.1	92.6	88.7	85.9	87.5	93.4	103.2	115.1	118.2
40°	1579.6	1165.5	144.2	87.1	83.1	81.2	82.3	85.1	93.4	104.4	106.4
42.5°	1706.5	1194.3	114.7	81.2	77.6	76.8	76.8	78.0	83.5	89.8	90.2
45°	1833.0	1204.5	96.1	74.1	71.7	72.5	72.1	71.3	73.7	72.9	72.9
47.5°	1923.2	1192.3	79.6	67.4	67.4	68.6	66.6	63.8	62.6	57.9	58.3
50°	1985.1	1147.8	65.4	59.5	62.6	64.2	60.3	56.0	51.6	46.5	45.3
52.5°	2010.7	1068.6	53.6	49.3	55.6	57.5	52.8	47.7	41.0	36.6	35.5
55°	1994.1	970.9	44.5	40.2	46.9	49.3	44.5	38.6	31.1	26.4	25.6
57.5°	1921.2	854.2	37.8	31.9	37.4	39.0	35.9	29.6	22.1	17.3	17.3
60°	1795.1	733.7	30.7	25.2	28.0	30.3	27.2	21.3	15.0	10.6	9.9
62.5°	1539.4	595.8	24.8	19.7	19.7	21.7	18.9	15.4	9.5	5.5	5.1
65°	1111.5	408.6	19.7	14.6	14.2	14.2	11.8	10.2	5.5	2.4	1.6
67.5°	604.0	230.5	15.8	11.0	9.9	9.5	7.5	5.9	2.4	0.4	0.0
70°	237.6	88.7	12.2	7.5	6.3	5.9	3.9	2.8	1.6	0.0	0.0
71°	161.2	61.1	10.6	6.3	5.1	4.3	3.2	2.4	1.2	0.0	0.0
72.5°	92.2	37.8	8.3	4.7	3.9	3.2	2.4	1.6	1.2	0.0	0.0
75°	40.2	19.3	5.1	3.5	2.8	2.0	1.6	1.2	0.4	0.0	0.0
77.5°	20.5	10.6	3.5	2.8	1.6	1.2	0.8	0.4	0.0	0.0	0.0
80°	11.4	5.5	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
82.5°	6.3	3.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.8	0.0	0.0	0.0	0.0	0.4	0.4	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)