

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: P458654

Luminaire Tested: **GALN-SA2A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458654
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-SA2A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6169 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

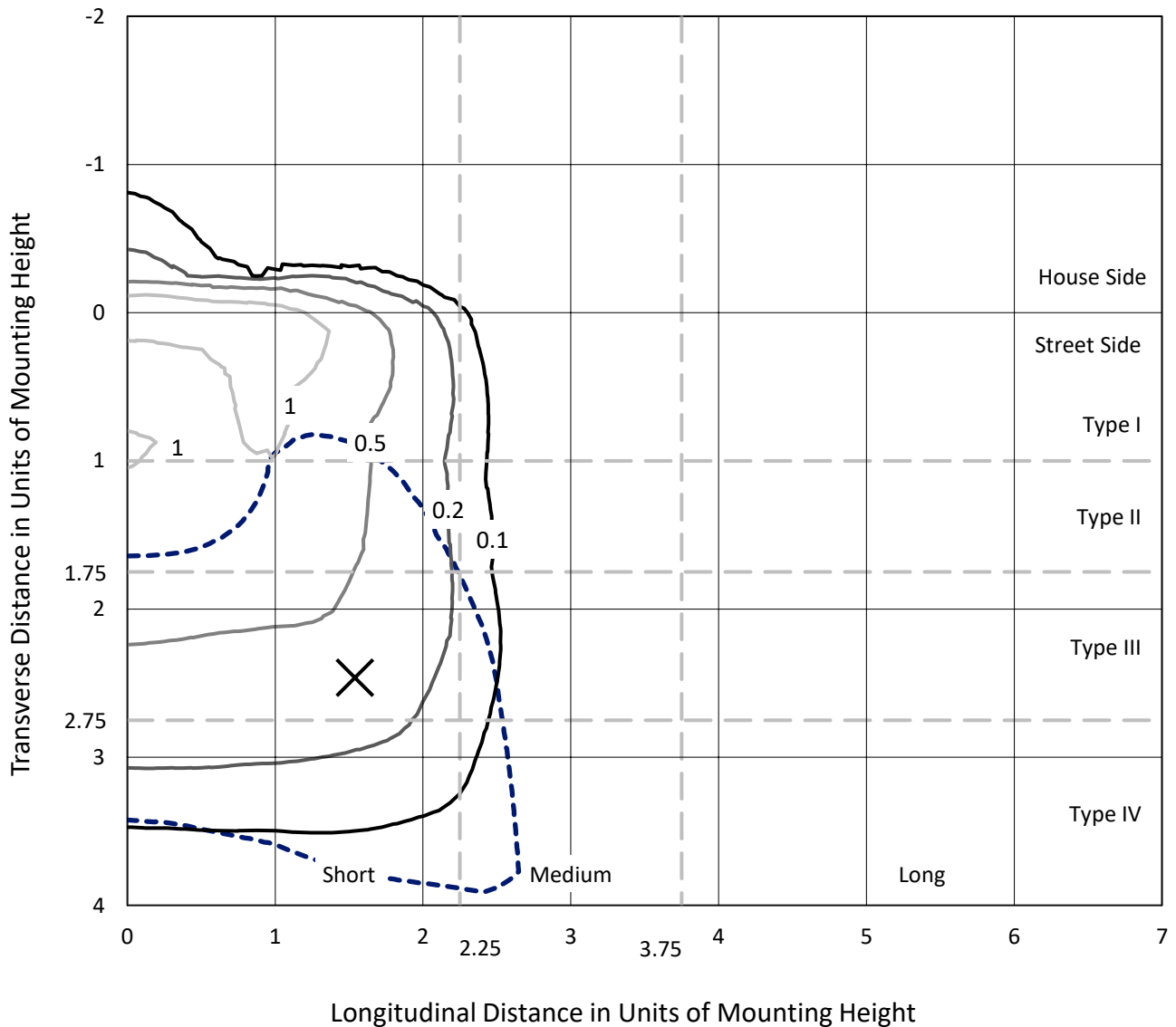
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

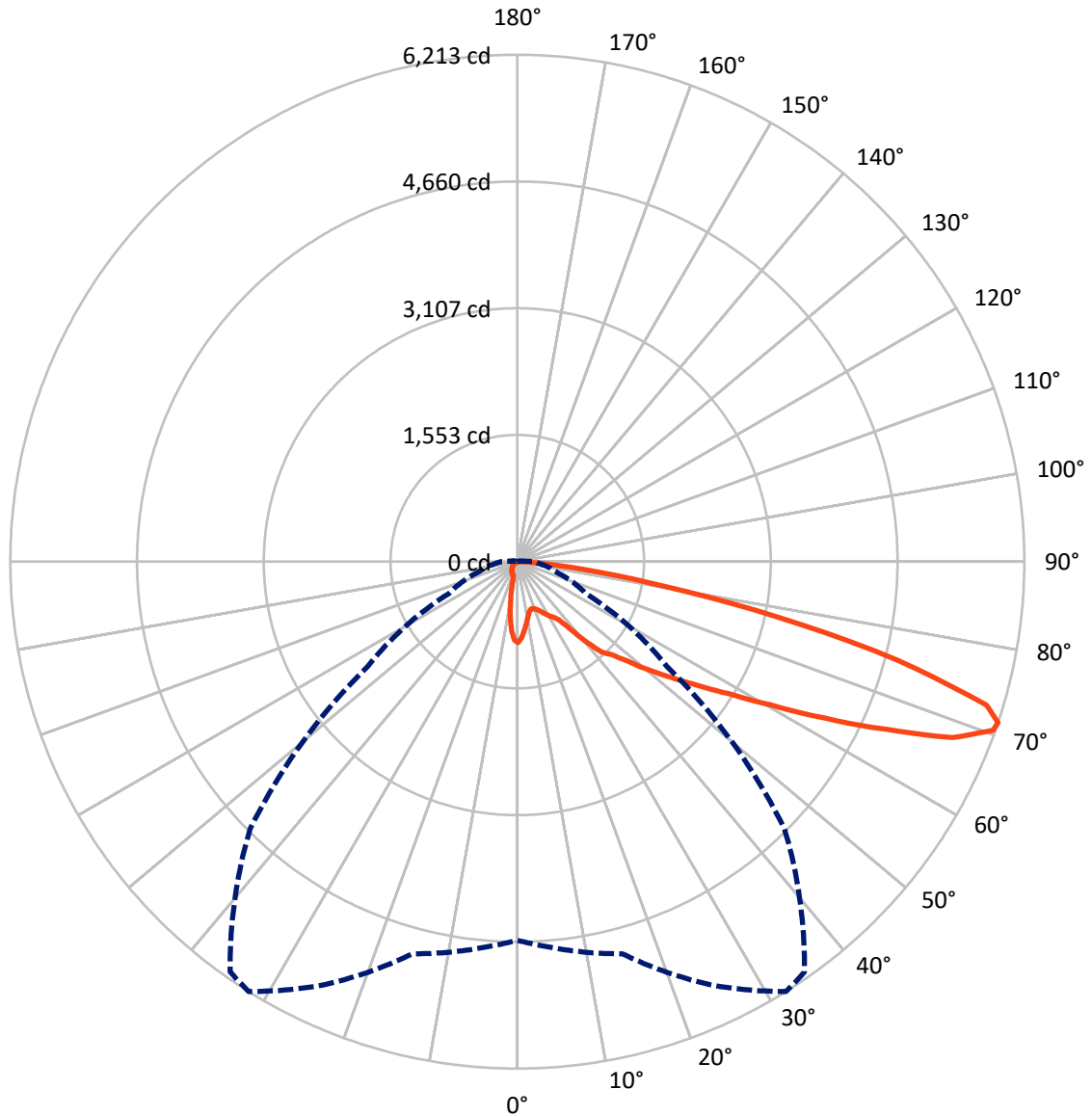
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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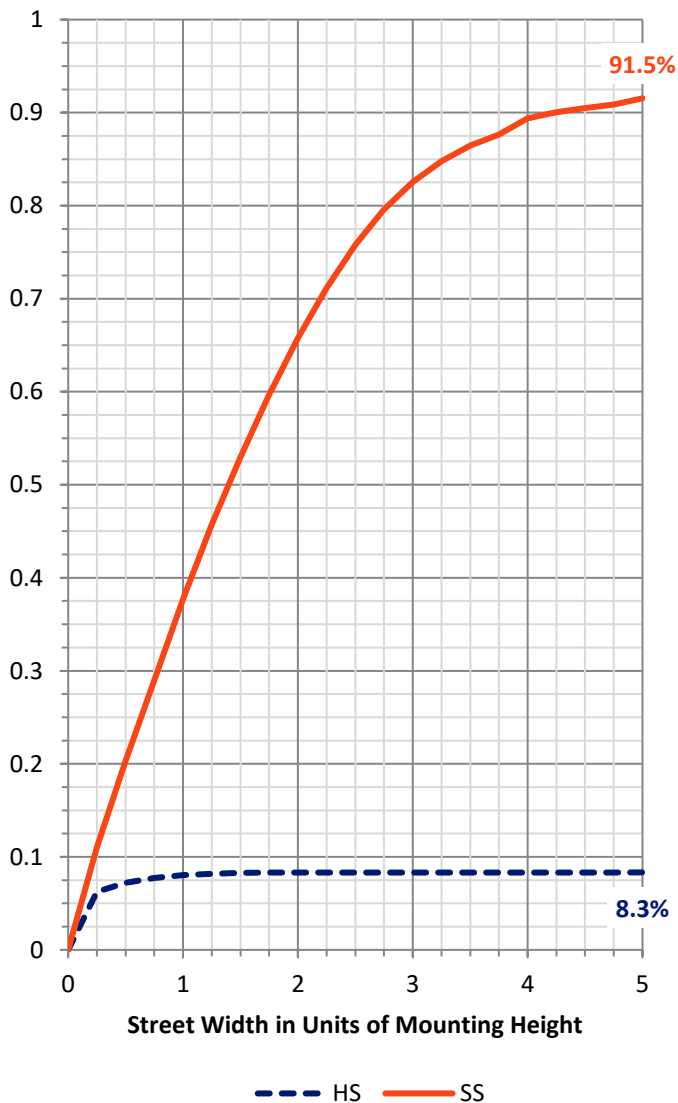
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.7	0.0	516.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5652.3	0.0	5652.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	6169.0	0.0	6169.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	1.3
10°-20°	175.1	2.8
20°-30°	272.4	4.4
30°-40°	453.8	7.4
40°-50°	844.1	13.7
50°-60°	1355.2	22.0
60°-70°	1822.8	29.5
70°-80°	1081.5	17.5
80°-90°	83.6	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°	6169.0	100.0
0°-180°	6169.0	100.0



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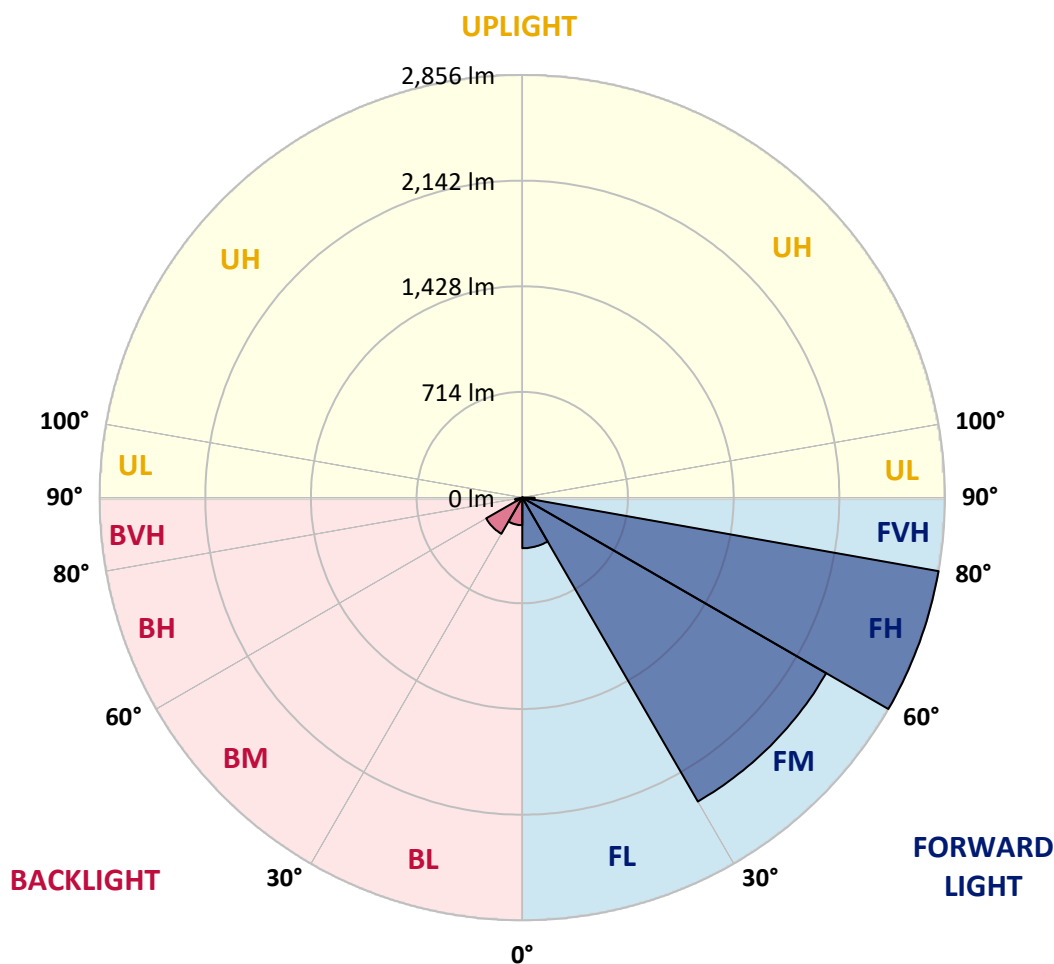
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.9	5.5			
FM	(30°-60°)	2371.1	38.4			
FH	(60°-80°)	2855.9	46.3			G2/5000
FVH	(80°-90°)	83.3	1.3			G1/100
BL	(0°-30°)	186.2	3.0	B1/500		
BM	(30°-60°)	281.9	4.6	B1/1000		
BH	(60°-80°)	48.3	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°	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1
2.5°	920.1	929.6	928.1	931.5	939.5	942.8	951.8	961.8	975.5	985.0	991.1
5°	824.0	831.1	832.0	848.6	856.6	865.6	892.2	921.0	953.2	978.8	995.9
7.5°	721.2	725.0	732.6	754.4	774.7	783.7	824.0	874.2	924.8	972.7	1003.4
10°	636.4	640.7	654.4	677.6	696.6	708.4	764.3	827.3	898.3	969.3	1014.3
12.5°	588.1	590.5	595.7	616.6	640.7	653.5	713.6	785.6	877.0	970.8	1032.8
15°	584.8	583.9	577.7	586.2	608.0	621.3	680.0	757.2	858.1	975.5	1054.6
17.5°	602.3	600.0	585.3	585.3	603.3	614.2	665.8	742.0	848.6	986.4	1085.4
20°	629.3	625.5	601.4	599.5	617.0	628.4	674.3	743.0	850.5	1006.8	1126.6
22.5°	663.4	659.2	622.7	623.7	642.6	654.0	698.9	760.0	862.3	1031.8	1170.6
25°	707.9	703.2	660.1	658.2	678.1	688.1	735.4	790.3	878.9	1063.1	1228.4
27.5°	767.1	757.2	705.6	702.7	724.0	736.8	779.5	831.1	908.3	1106.2	1306.0
30°	815.9	805.0	755.8	748.2	770.9	780.9	824.9	886.0	966.0	1181.5	1413.5
32.5°	879.8	863.7	806.0	786.1	810.2	823.0	890.7	988.3	1051.7	1261.0	1541.4
35°	1023.8	1013.9	943.3	873.7	872.3	888.4	987.8	1091.5	1139.8	1385.1	1715.6
37.5°	1229.8	1222.7	1147.9	1054.6	1027.6	1020.0	1105.7	1205.2	1280.5	1555.6	1918.3
40°	1468.9	1452.4	1383.7	1304.6	1269.6	1247.3	1244.9	1374.2	1464.2	1787.1	2129.5
42.5°	1640.4	1610.0	1526.7	1521.0	1513.4	1490.2	1423.0	1621.4	1701.4	2036.2	2355.4
45°	1820.3	1774.4	1650.3	1629.0	1626.1	1624.7	1692.0	1914.1	1960.0	2306.2	2587.4
47.5°	1960.0	1923.5	1821.7	1812.2	1824.1	1856.3	2047.6	2224.7	2215.2	2546.7	2782.1
50°	2146.1	2118.6	2005.5	2023.4	2084.5	2137.1	2448.7	2563.3	2425.0	2736.1	2923.7
52.5°	2365.8	2315.1	2210.0	2258.8	2352.6	2440.2	2874.4	2859.7	2572.3	2878.7	3029.3
55°	2556.2	2520.2	2484.2	2534.9	2675.0	2784.4	3258.9	3081.8	2679.3	2993.3	3075.7
57.5°	2878.2	2869.7	2832.7	2884.3	3054.3	3168.0	3603.2	3254.2	2748.0	3052.9	3021.2
60°	3354.6	3340.8	3272.2	3338.0	3559.6	3738.1	3920.5	3409.0	2763.6	3029.7	2864.5
62.5°	3927.6	3880.7	3822.0	3919.0	4223.1	4301.7	4219.3	3500.9	2705.3	2845.0	2486.6
65°	4462.7	4414.4	4415.8	4620.4	4951.4	5004.9	4567.8	3487.2	2534.9	2382.4	1834.0
67.5°	4872.3	4864.2	4922.0	5321.2	5754.0	5717.1	4879.4	3281.6	2029.6	1544.2	974.6
70°	4893.1	4908.7	5074.5	5748.3	6187.8	6129.1	4852.9	2667.5	1265.3	710.3	384.0
71°	4641.2	4746.3	4975.5	5735.1	6213.4	6137.1	4629.4	2234.2	928.1	495.3	277.0
72.5°	3955.0	4010.4	4505.8	5397.4	6011.1	5848.3	4062.5	1566.0	594.3	303.1	159.1
75°	2178.3	2314.7	3017.4	4234.4	4807.9	4664.9	2647.6	743.9	296.4	165.7	65.8
77.5°	1037.1	1010.5	1472.2	2518.3	3259.9	3252.3	1334.0	330.5	172.8	112.2	33.1
80°	296.4	333.4	563.5	1197.1	1809.9	1829.8	512.4	159.6	119.8	87.6	17.0
82.5°	89.5	91.4	206.9	529.4	900.2	848.6	192.3	81.4	86.2	69.6	9.9
85°	15.6	19.4	61.1	186.6	343.3	260.4	48.3	38.8	56.8	45.9	5.7
87.5°	0.9	1.4	20.4	21.3	30.3	17.5	8.5	5.7	12.3	12.3	3.3
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°	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1	992.1
2.5°	995.4	998.2	996.3	992.1	985.0	976.4	965.1	955.6	947.6	943.3	948.5
5°	1001.5	1005.3	995.9	974.6	942.3	907.3	867.5	836.7	812.6	805.0	802.2
7.5°	1011.0	1013.4	987.8	940.5	872.3	789.4	716.9	655.9	608.5	594.3	573.5
10°	1023.3	1021.9	973.6	885.5	765.7	641.2	528.9	445.6	382.6	359.9	358.0
12.5°	1042.3	1034.7	955.6	810.7	638.8	475.9	337.2	263.8	224.0	210.7	207.9
15°	1065.9	1047.9	927.2	723.1	489.2	307.3	207.9	185.6	180.4	179.5	178.5
17.5°	1093.9	1065.5	889.8	615.6	343.8	199.4	173.8	173.3	173.8	172.8	172.4
20°	1131.8	1083.9	845.3	488.2	227.3	168.1	165.7	165.7	166.2	165.7	165.7
22.5°	1172.0	1105.7	790.3	372.7	171.4	159.6	159.1	160.1	161.0	160.5	160.5
25°	1221.7	1134.1	717.9	255.2	153.4	152.5	153.0	154.8	156.7	157.2	156.7
27.5°	1293.7	1169.2	640.2	175.7	140.6	141.6	146.3	151.1	153.9	154.4	154.4
30°	1374.7	1208.0	538.9	142.5	130.2	130.2	135.9	144.9	151.1	152.0	152.5
32.5°	1478.9	1253.0	426.7	128.3	120.3	119.3	124.5	135.4	146.8	150.1	150.1
35°	1607.7	1306.0	317.3	119.3	113.2	110.8	113.7	122.6	137.3	146.8	147.7
37.5°	1758.7	1356.2	232.0	111.3	106.5	103.2	105.1	112.2	124.1	138.3	142.1
40°	1898.4	1400.7	173.3	104.7	99.9	97.5	99.0	102.3	112.2	125.5	127.9
42.5°	2050.9	1435.3	137.8	97.5	93.3	92.3	92.3	93.8	100.4	108.0	108.4
45°	2202.9	1447.6	115.5	89.0	86.2	87.1	86.7	85.7	88.6	87.6	87.6
47.5°	2311.4	1432.9	95.7	81.0	81.0	82.4	80.0	76.7	75.3	69.6	70.1
50°	2385.7	1379.4	78.6	71.5	75.3	77.2	72.5	67.2	62.0	55.9	54.5
52.5°	2416.5	1284.2	64.4	59.2	66.8	69.1	63.5	57.3	49.2	44.0	42.6
55°	2396.6	1166.8	53.5	48.3	56.4	59.2	53.5	46.4	37.4	31.7	30.8
57.5°	2309.0	1026.6	45.5	38.4	45.0	46.9	43.1	35.5	26.5	20.8	20.8
60°	2157.5	881.7	36.9	30.3	33.6	36.5	32.7	25.6	18.0	12.8	11.8
62.5°	1850.1	716.0	29.8	23.7	23.7	26.0	22.7	18.5	11.4	6.6	6.2
65°	1335.9	491.1	23.7	17.5	17.0	17.0	14.2	12.3	6.6	2.8	1.9
67.5°	725.9	277.0	18.9	13.3	11.8	11.4	9.0	7.1	2.8	0.5	0.0
70°	285.5	106.5	14.7	9.0	7.6	7.1	4.7	3.3	1.9	0.0	0.0
71°	193.7	73.4	12.8	7.6	6.2	5.2	3.8	2.8	1.4	0.0	0.0
72.5°	110.8	45.5	9.9	5.7	4.7	3.8	2.8	1.9	1.4	0.0	0.0
75°	48.3	23.2	6.2	4.3	3.3	2.4	1.9	1.4	0.5	0.0	0.0
77.5°	24.6	12.8	4.3	3.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0
80°	13.7	6.6	2.8	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0
82.5°	7.6	3.8	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.9	0.0	0.0	0.0	0.0	0.5	0.5	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)