

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: P453726

Luminaire Tested: **GALN-SA4D-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20162 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

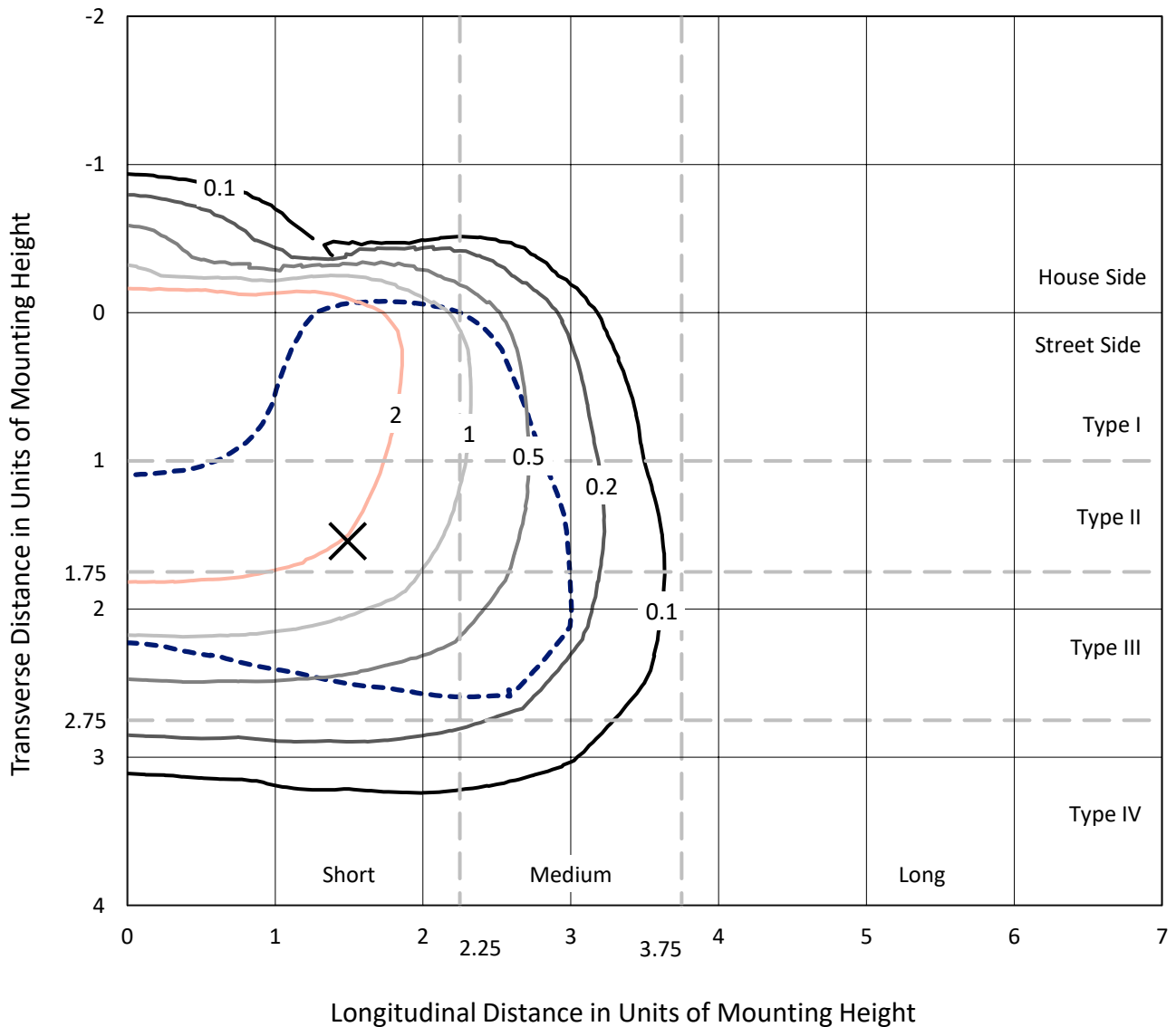
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

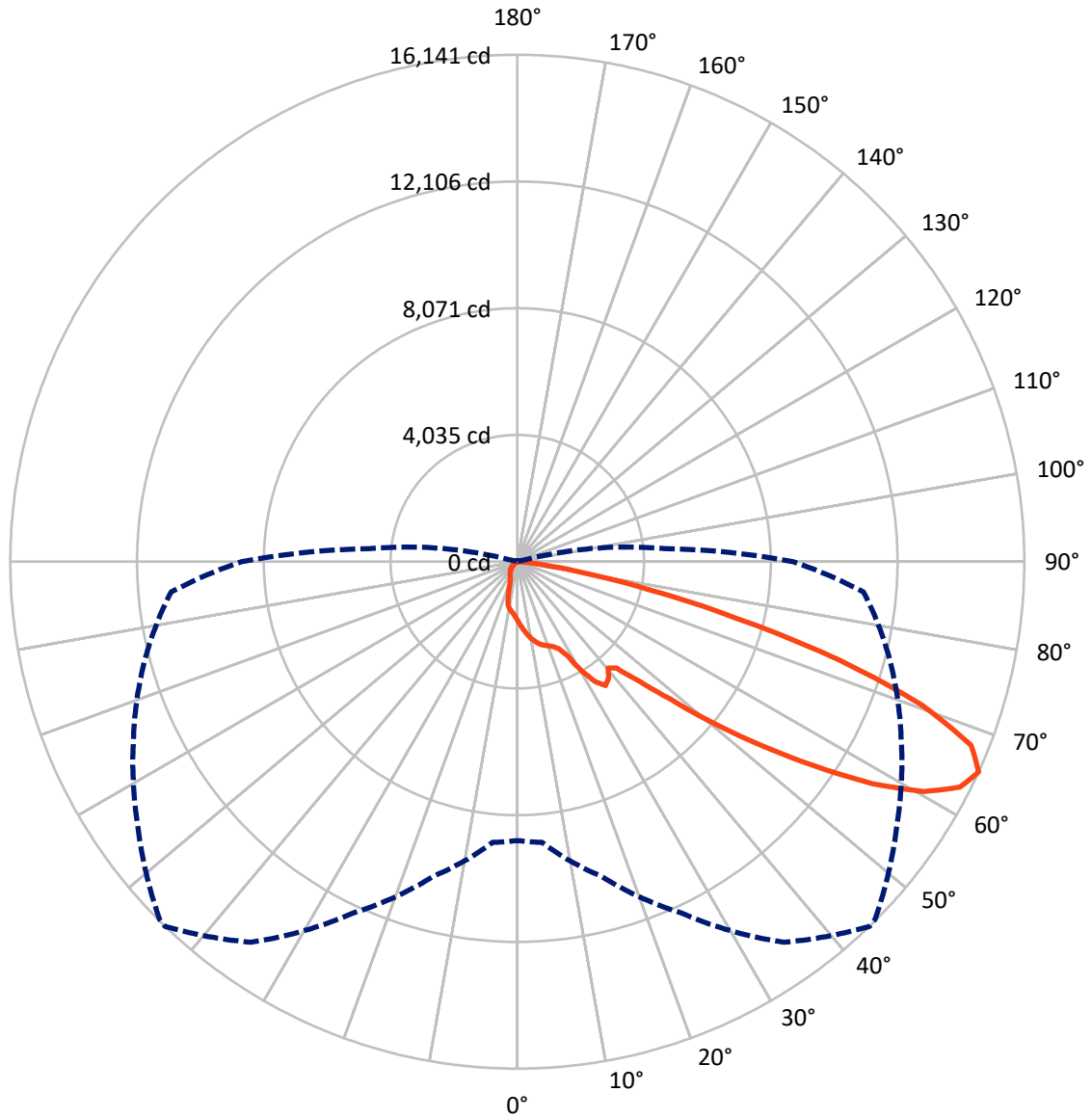
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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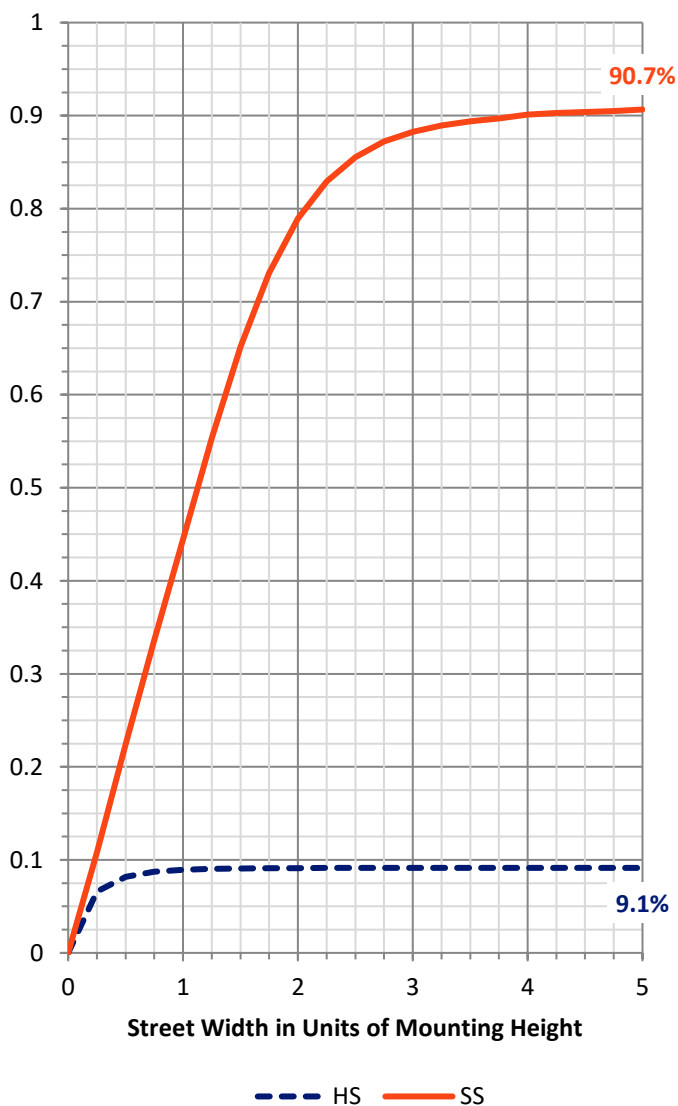
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1857.6	0.0	1857.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	18304.4	0.0	18304.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	20162.0	0.0	20162.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	0.9
10°-20°	561.7	2.8
20°-30°	952.5	4.7
30°-40°	1583.6	7.9
40°-50°	2765.0	13.7
50°-60°	5401.9	26.8
60°-70°	6267.5	31.1
70°-80°	2282.3	11.3
80°-90°	160.8	0.8
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°	20162.0	100.0
0°-180°	20162.0	100.0

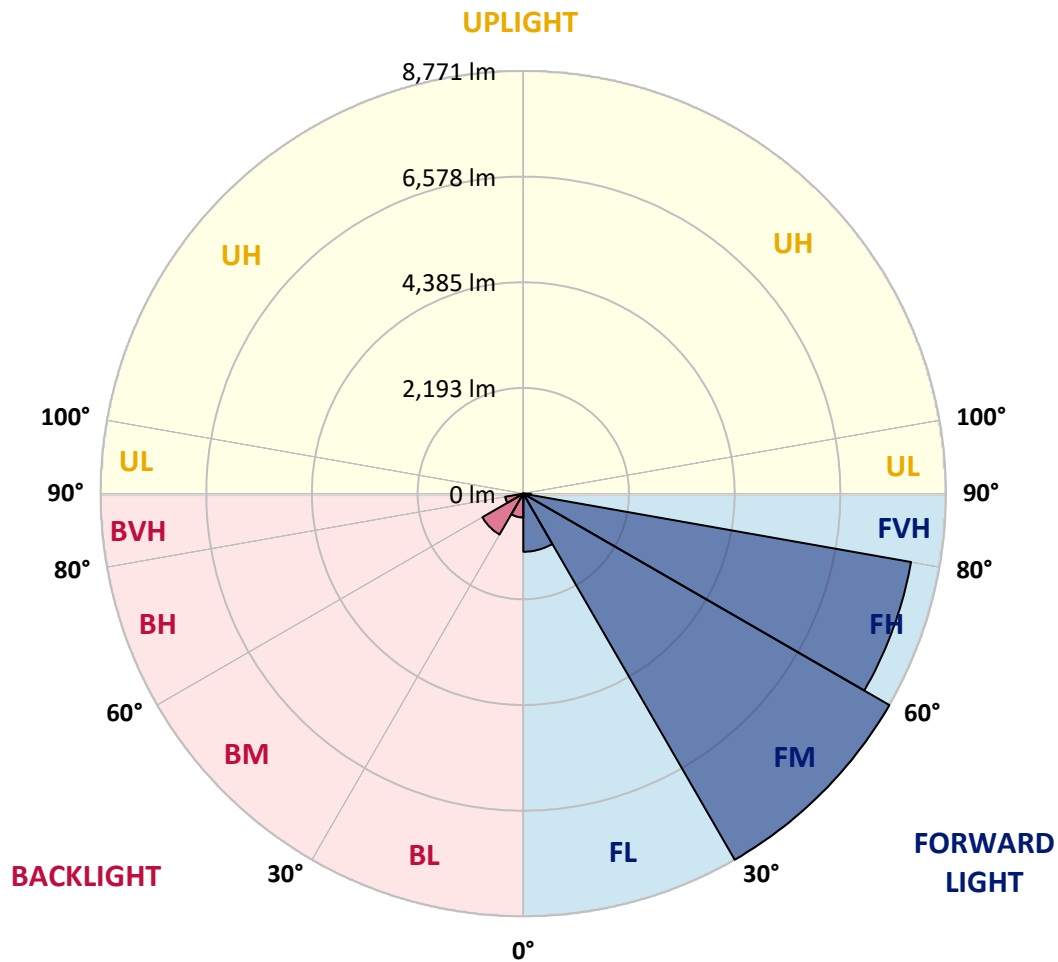


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1205.9	6.0			
FM	(30°-60°)	8770.5	43.5			
FH	(60°-80°)	8169.4	40.5			G4/12000
FVH	(80°-90°)	158.6	0.8			G2/225
BL	(0°-30°)	494.9	2.5	B1/500		
BM	(30°-60°)	980.1	4.9	B1/1000		
BH	(60°-80°)	380.4	1.9	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5
2.5°	2112.2	2103.0	2098.3	2073.7	2055.2	2032.1	2032.1	2002.8	1968.9	1931.9	1898.0
5°	2347.9	2332.5	2312.5	2290.9	2247.8	2186.1	2186.1	2124.5	2053.7	1990.5	1921.2
7.5°	2574.4	2560.5	2526.6	2485.0	2414.2	2349.5	2344.8	2255.5	2170.7	2075.2	1976.6
10°	2773.1	2762.3	2733.1	2653.0	2579.0	2494.3	2492.7	2392.6	2294.0	2176.9	2055.2
12.5°	2911.8	2913.3	2874.8	2797.8	2702.3	2622.1	2616.0	2517.4	2414.2	2287.8	2138.4
15°	3010.4	3010.4	2970.3	2884.0	2797.8	2726.9	2720.7	2634.5	2528.2	2391.0	2229.3
17.5°	3038.1	3047.4	3004.2	2927.2	2857.9	2796.2	2794.7	2722.3	2637.5	2505.1	2321.7
20°	3027.3	3036.6	3002.7	2942.6	2894.8	2859.4	2854.8	2825.5	2746.9	2622.1	2420.3
22.5°	3004.2	3013.5	2988.8	2953.4	2930.3	2941.1	2933.3	2958.0	2916.4	2765.4	2537.4
25°	3008.8	3018.1	2999.6	2979.6	2999.6	3065.8	3085.9	3192.2	3155.2	2947.2	2663.7
27.5°	3153.7	3172.1	3146.0	3155.2	3226.1	3380.1	3418.6	3602.0	3438.7	3178.3	2860.9
30°	3475.6	3463.3	3414.0	3458.7	3705.2	4031.8	4021.0	3991.8	3736.0	3444.8	3095.1
32.5°	3768.4	3757.6	3754.5	3947.1	4393.9	4552.5	4544.8	4261.4	4002.5	3749.9	3326.2
35°	3887.0	3845.4	3836.2	4303.0	5050.2	4840.6	4792.9	4372.3	4326.1	4082.7	3561.9
37.5°	4244.4	4215.1	4071.9	4361.5	4788.3	4718.9	4682.0	4563.3	4671.2	4376.9	3828.5
40°	4980.8	4899.2	4769.8	4486.3	4417.0	4446.2	4483.2	4808.3	5079.4	4779.0	4184.3
42.5°	5896.0	5877.5	5637.1	5108.7	4589.5	4629.6	4677.3	5319.8	5666.4	5384.5	4765.2
45°	6994.4	7020.6	6674.0	6050.0	5369.1	5403.0	5472.3	6074.7	6461.4	6325.8	5678.7
47.5°	7992.8	7972.7	7855.6	7207.0	6578.5	6503.0	6615.4	7043.7	7561.4	7583.0	6812.6
50°	8997.2	9103.6	8929.5	8675.3	8208.4	8049.8	8008.2	8217.7	9006.5	8903.3	8174.6
52.5°	10440.8	10496.3	10169.7	10105.0	10211.3	9696.7	9655.1	9705.9	10411.5	10057.2	9194.4
55°	11348.2	11315.9	11194.2	11699.5	12120.1	11477.7	11425.3	11220.4	11577.8	10872.2	10175.8
57.5°	11634.8	11681.0	11964.5	12878.1	13873.3	13327.9	13232.4	12650.1	12419.0	11631.7	11078.6
60°	11506.9	11591.7	12203.3	13562.1	14942.5	14860.9	14779.2	13800.9	13022.9	12266.5	11711.8
62.5°	10596.4	10715.0	11693.3	13440.4	15304.6	15814.5	15712.8	14518.8	13425.0	12574.6	11822.8
65°	8880.2	8968.0	10373.0	12335.8	14790.0	16141.1	16104.2	14743.8	13488.2	12292.6	11063.2
67.5°	6330.4	6629.3	7931.1	10396.1	13267.9	15583.4	15646.6	14474.2	12895.0	11074.0	9162.1
70°	3979.4	4182.8	5116.4	7442.8	10636.5	13671.5	13879.5	13240.1	11191.1	8632.1	6133.2
72.5°	1898.0	2049.0	2714.6	4711.2	7507.5	10756.6	10921.5	10869.1	8653.7	5438.4	3164.4
75°	845.8	902.8	1295.7	2404.9	4846.8	7230.2	7656.9	7727.8	5407.6	2660.7	1231.0
77.5°	431.4	432.9	607.0	1164.7	2420.3	4313.7	4398.5	4646.5	2931.8	1172.4	428.3
80°	229.6	245.0	322.0	550.0	1255.6	2124.5	2113.7	2323.3	1300.3	574.7	143.3
82.5°	103.2	114.0	181.8	288.1	613.2	805.7	868.9	950.6	557.7	366.7	63.2
85°	30.8	37.0	89.4	144.8	221.8	232.6	260.4	335.9	315.8	260.4	32.4
87.5°	4.6	4.6	37.0	40.1	32.4	41.6	43.1	47.8	101.7	95.5	16.9
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°	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5	1876.5
2.5°	1879.6	1868.8	1830.3	1797.9	1770.2	1753.2	1733.2	1720.9	1714.7	1710.1	1711.6
5°	1887.3	1861.1	1794.8	1742.4	1702.4	1659.3	1630.0	1613.0	1605.3	1593.0	1593.0
7.5°	1930.4	1888.8	1796.4	1716.3	1646.9	1588.4	1532.9	1512.9	1499.0	1495.9	1492.9
10°	1992.0	1939.6	1813.3	1702.4	1603.8	1523.7	1445.1	1375.8	1321.9	1289.5	1284.9
12.5°	2069.1	1993.6	1839.5	1693.1	1566.8	1425.1	1217.1	1076.9	982.9	953.6	958.3
15°	2139.9	2058.3	1865.7	1685.4	1499.0	1181.7	945.9	785.7	738.0	733.3	734.9
17.5°	2224.7	2127.6	1896.5	1674.7	1312.6	902.8	702.5	659.4	668.6	684.0	682.5
20°	2312.5	2201.6	1933.5	1610.0	1047.6	679.4	620.9	625.5	639.4	653.2	656.3
22.5°	2406.5	2286.3	1976.6	1454.3	799.6	591.6	588.5	594.7	608.5	624.0	627.0
25°	2535.9	2392.6	2009.0	1251.0	605.5	546.9	553.1	563.9	576.2	593.1	596.2
27.5°	2702.3	2535.9	2025.9	986.0	523.8	506.9	508.4	523.8	539.2	554.6	554.6
30°	2917.9	2706.9	1992.0	745.7	483.8	468.3	462.2	471.4	491.5	506.9	508.4
32.5°	3110.5	2868.6	1902.7	570.0	454.5	432.9	417.5	419.0	426.8	436.0	437.5
35°	3303.1	3025.8	1750.1	479.1	423.7	399.0	375.9	363.6	357.4	352.8	357.4
37.5°	3549.6	3221.4	1546.8	436.0	397.5	366.7	334.3	308.1	286.6	272.7	275.8
40°	3867.0	3492.6	1306.4	408.3	372.8	335.9	292.7	258.8	221.8	209.5	203.4
42.5°	4390.8	3903.9	1053.8	385.2	348.2	303.5	249.6	203.4	169.5	157.1	160.2
45°	5218.1	4423.1	811.9	360.5	323.5	268.1	209.5	160.2	132.5	126.3	129.4
47.5°	6315.0	5094.8	625.5	332.8	292.7	229.6	164.8	126.3	109.4	107.8	106.3
50°	7347.2	5720.3	522.3	302.0	255.7	191.0	135.6	106.3	95.5	94.0	94.0
52.5°	8280.9	6168.7	425.2	266.5	215.7	157.1	114.0	94.0	84.7	80.1	80.1
55°	9111.3	6461.4	345.1	223.4	169.5	124.8	98.6	84.7	73.9	67.8	66.2
57.5°	9738.3	6496.8	258.8	178.7	126.3	97.1	84.7	73.9	61.6	53.9	50.8
60°	10006.4	6190.2	191.0	135.6	94.0	77.0	67.8	60.1	46.2	38.5	37.0
62.5°	9736.7	5594.0	141.7	103.2	72.4	57.0	47.8	44.7	32.4	23.1	21.6
65°	8770.8	4732.8	112.5	78.6	53.9	41.6	30.8	29.3	20.0	10.8	9.2
67.5°	7026.8	3706.7	89.4	58.5	38.5	27.7	20.0	18.5	10.8	3.1	3.1
70°	4569.5	2369.5	72.4	43.1	24.6	18.5	12.3	9.2	6.2	1.5	0.0
72.5°	2260.1	1107.7	58.5	33.9	16.9	9.2	4.6	3.1	4.6	0.0	0.0
75°	876.6	394.4	43.1	23.1	9.2	4.6	3.1	0.0	1.5	0.0	0.0
77.5°	291.2	131.0	26.2	12.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	107.8	50.8	13.9	7.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	43.1	20.0	9.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.6	12.3	6.2	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	9.2	6.2	4.6	3.1	1.5	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)