

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: P651926

Luminaire Tested: **GALN-SA5A-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651926
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-SA5A-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 13932.9 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

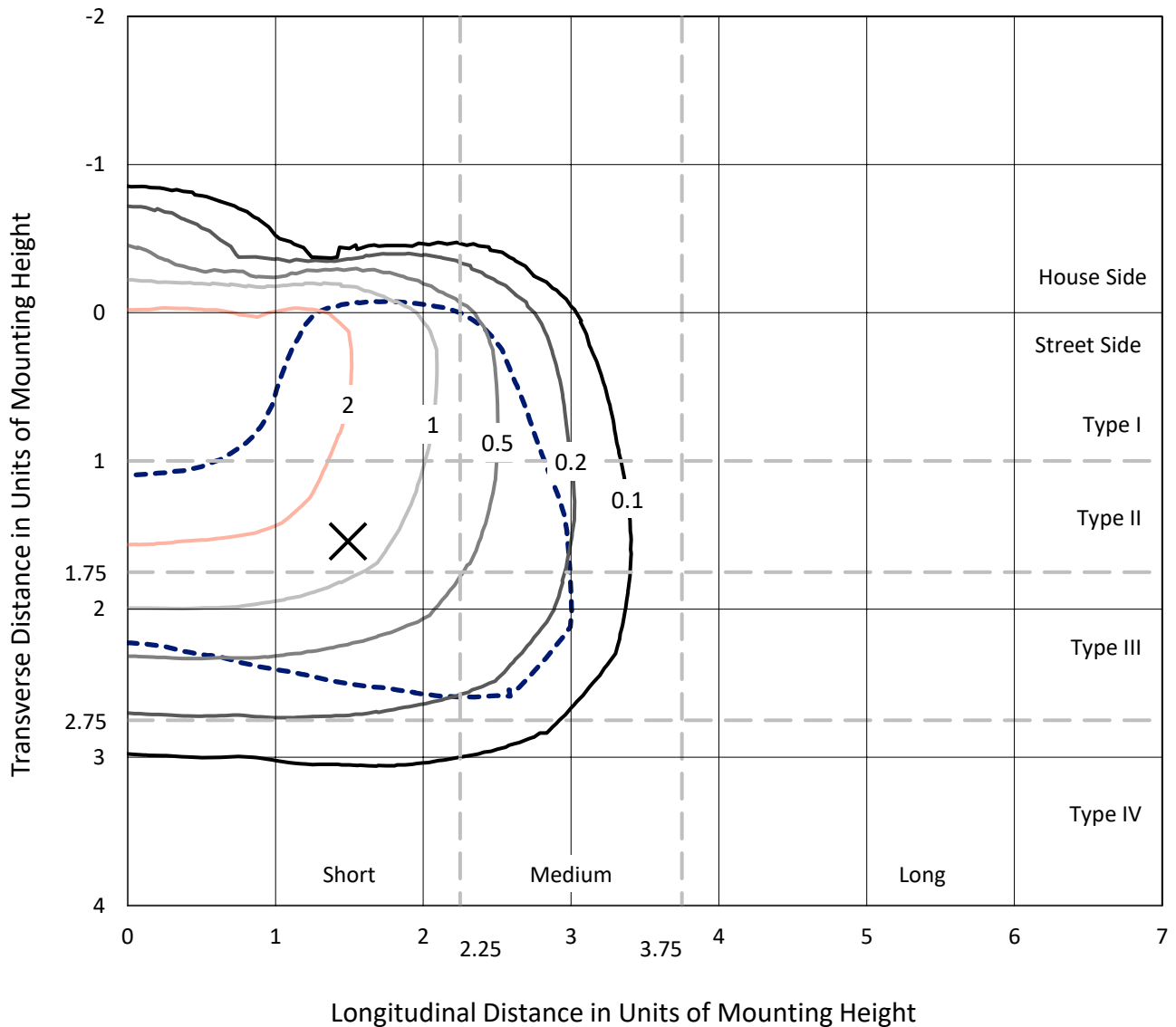
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

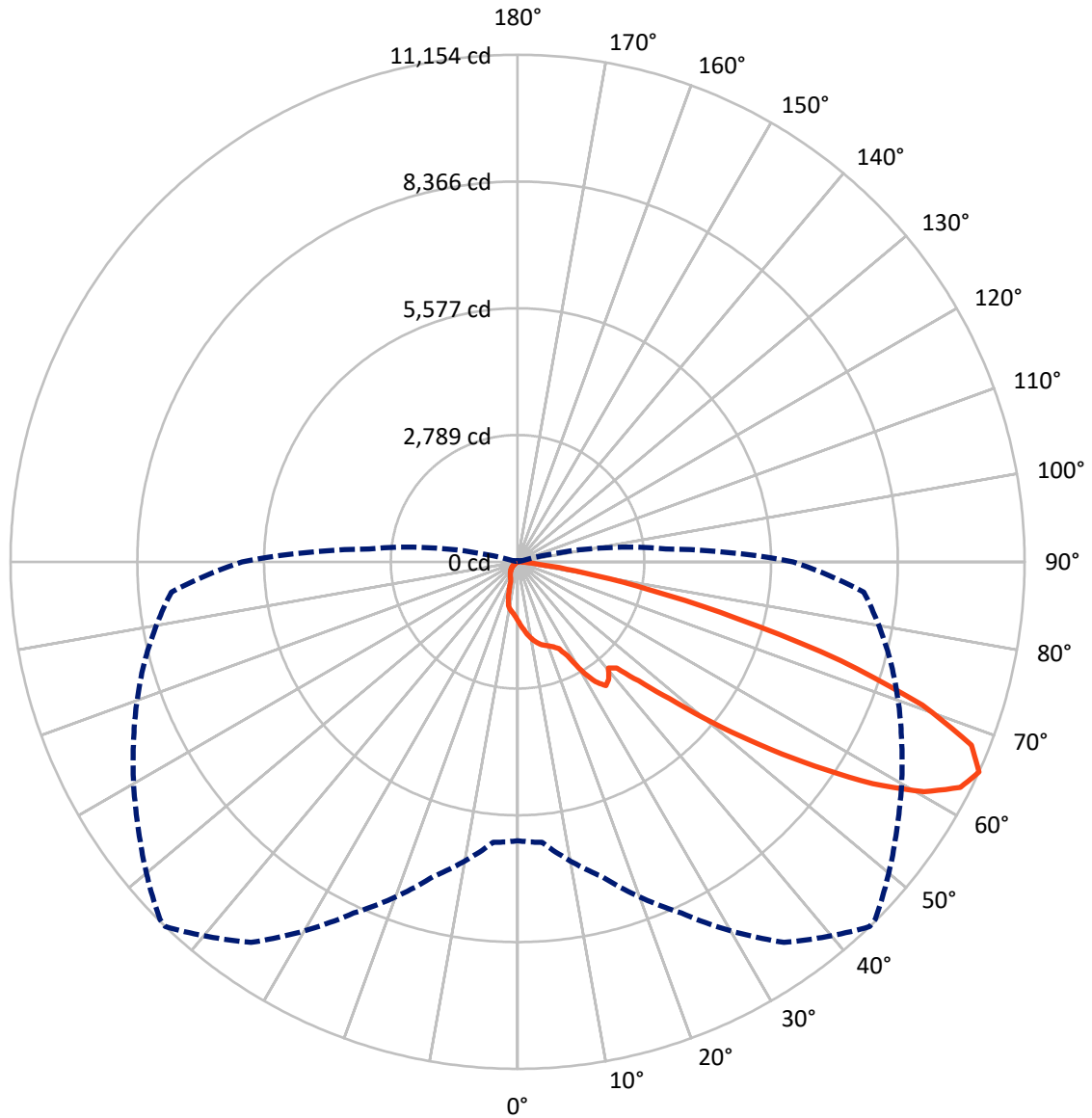
✕ Max cd
 - - - 1/2 Max cd



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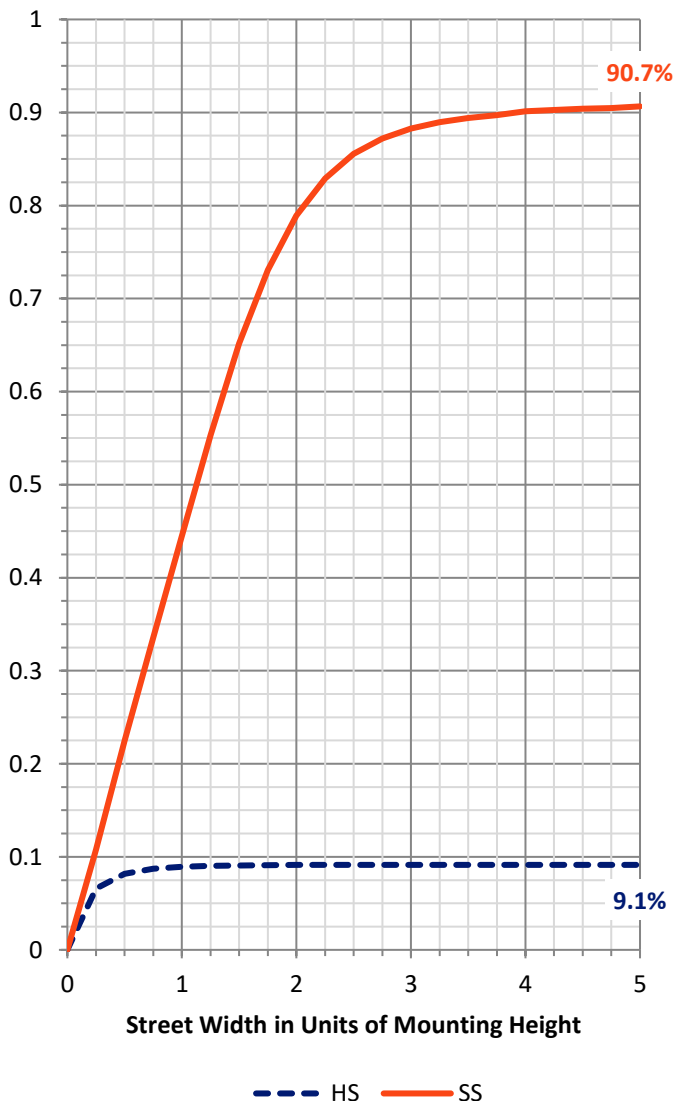
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1283.7	0.0	1283.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12649.1	0.0	12649.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	13932.9	0.0	13932.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	0.9
10°-20°	388.2	2.8
20°-30°	658.2	4.7
30°-40°	1094.4	7.9
40°-50°	1910.8	13.7
50°-60°	3733.0	26.8
60°-70°	4331.1	31.1
70°-80°	1577.2	11.3
80°-90°	111.1	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°	13932.9	100.0
0°-180°	13932.9	100.0

Coefficient of Utilization



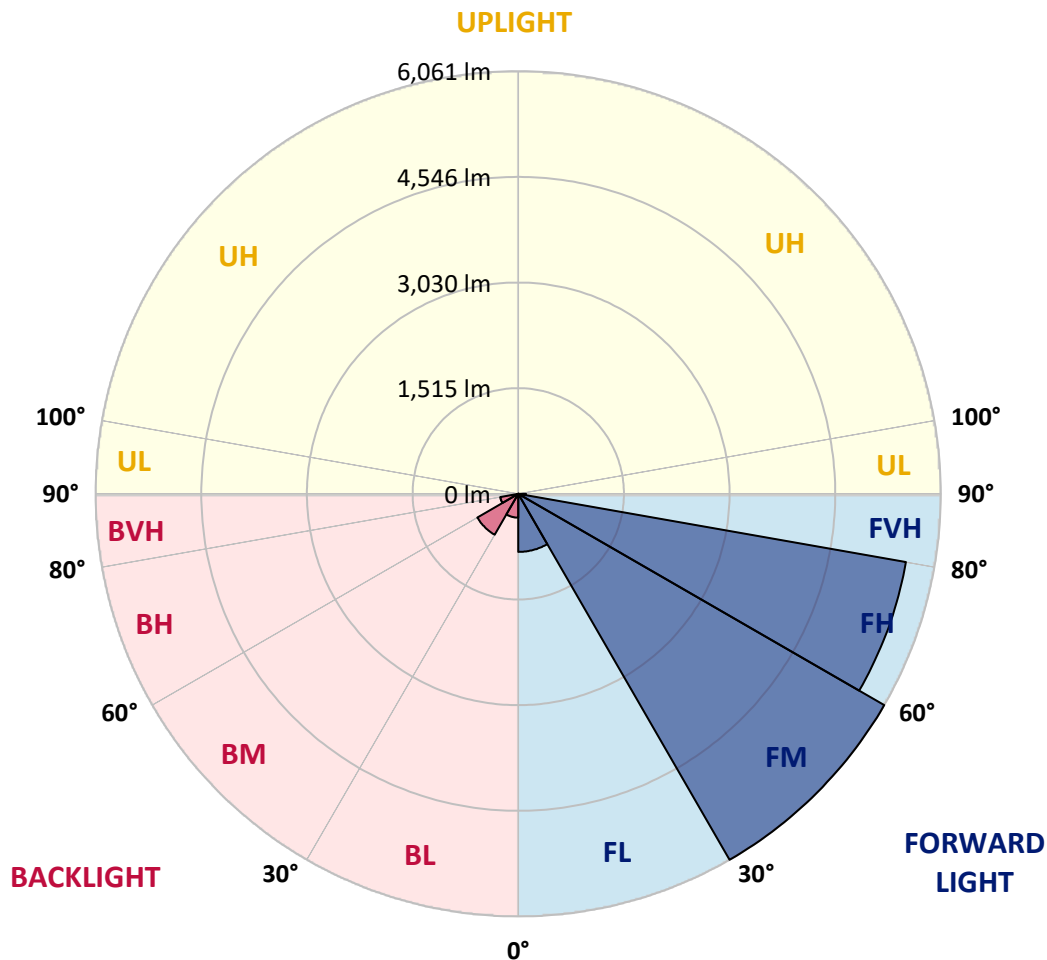
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.3	6.0			
FM (30°-60°)	6060.8	43.5			
FH (60°-80°)	5645.4	40.5			G3/7500
FVH (80°-90°)	109.6	0.8			G2/225
BL (0°-30°)	342.0	2.5	B1/500		
BM (30°-60°)	677.3	4.9	B1/1000		
BH (60°-80°)	262.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7
2.5°	1459.6	1453.2	1450.1	1433.0	1420.2	1404.3	1404.3	1384.0	1360.6	1335.1	1311.6
5°	1622.5	1611.9	1598.0	1583.1	1553.3	1510.7	1510.7	1468.1	1419.2	1375.5	1327.6
7.5°	1779.1	1769.5	1746.0	1717.2	1668.3	1623.6	1620.4	1558.6	1500.1	1434.1	1366.0
10°	1916.4	1908.9	1888.6	1833.3	1782.2	1723.6	1722.6	1653.4	1585.3	1504.3	1420.2
12.5°	2012.2	2013.3	1986.6	1933.4	1867.4	1812.0	1807.7	1739.6	1668.3	1581.0	1477.7
15°	2080.3	2080.3	2052.6	1993.0	1933.4	1884.4	1880.1	1820.5	1747.1	1652.3	1540.5
17.5°	2099.5	2105.9	2076.0	2022.9	1974.9	1932.3	1931.3	1881.2	1822.7	1731.1	1604.4
20°	2092.0	2098.4	2075.0	2033.5	2000.5	1976.0	1972.8	1952.5	1898.2	1812.0	1672.6
22.5°	2076.0	2082.4	2065.4	2040.9	2025.0	2032.4	2027.1	2044.1	2015.4	1911.0	1753.5
25°	2079.2	2085.6	2072.9	2059.0	2072.9	2118.6	2132.4	2205.9	2180.4	2036.6	1840.8
27.5°	2179.3	2192.1	2174.0	2180.4	2229.3	2335.8	2362.5	2489.1	2376.2	2196.4	1977.0
30°	2401.8	2393.3	2359.3	2390.1	2560.4	2786.1	2778.7	2758.5	2581.8	2380.5	2138.8
32.5°	2604.1	2596.7	2594.6	2727.6	3036.3	3146.0	3140.7	2944.8	2766.0	2591.4	2298.5
35°	2686.1	2657.3	2650.9	2973.5	3489.9	3345.1	3312.1	3021.5	2989.5	2821.3	2461.4
37.5°	2933.1	2912.9	2813.8	3014.0	3308.9	3261.0	3235.4	3153.5	3228.0	3024.7	2645.6
40°	3442.0	3385.5	3296.1	3100.3	3052.3	3072.6	3098.1	3322.7	3510.1	3302.5	2891.5
42.5°	4074.4	4061.6	3895.5	3530.3	3171.6	3199.2	3232.2	3676.2	3915.8	3720.9	3292.9
45°	4833.5	4851.6	4612.0	4180.9	3710.2	3733.7	3781.6	4197.9	4465.1	4371.4	3924.3
47.5°	5523.4	5509.5	5428.6	4980.4	4546.0	4493.9	4571.6	4867.5	5225.2	5240.2	4707.8
50°	6217.5	6290.9	6170.7	5995.0	5672.4	5562.7	5534.0	5678.8	6223.9	6152.6	5649.0
52.5°	7215.1	7253.4	7027.7	6983.0	7056.4	6700.8	6672.1	6707.2	7194.8	6949.9	6353.8
55°	7842.2	7819.8	7735.7	8084.9	8375.5	7931.6	7895.4	7753.8	8000.8	7513.2	7031.9
57.5°	8040.1	8072.1	8268.0	8899.3	9587.1	9210.2	9144.2	8741.8	8582.1	8038.0	7655.8
60°	7951.8	8010.4	8433.0	9372.0	10326.0	10269.5	10213.1	9537.0	8999.4	8476.7	8093.4
62.5°	7322.6	7404.6	8080.7	9287.9	10576.2	10928.5	10858.2	10033.2	9277.2	8689.6	8170.1
65°	6136.6	6197.2	7168.3	8524.5	10220.6	11154.3	11128.7	10188.6	9321.0	8494.8	7645.2
67.5°	4374.6	4581.2	5480.8	7184.2	9168.7	10768.8	10812.5	10002.3	8911.1	7652.7	6331.4
70°	2750.0	2890.5	3535.6	5143.3	7350.3	9447.6	9591.4	9149.5	7733.6	5965.2	4238.3
72.5°	1311.6	1416.0	1875.9	3255.7	5188.0	7433.3	7547.2	7511.1	5980.1	3758.2	2186.8
75°	584.5	623.9	895.3	1661.9	3349.4	4996.4	5291.2	5340.3	3736.9	1838.6	850.7
77.5°	298.1	299.1	419.5	804.8	1672.6	2981.0	3039.5	3210.9	2026.1	810.2	295.9
80°	158.6	169.3	222.5	380.0	867.7	1468.1	1460.6	1605.5	898.5	397.1	99.0
82.5°	71.3	78.8	125.6	199.1	423.7	556.8	600.5	656.9	385.4	253.4	43.6
85°	21.3	25.6	61.7	100.1	153.3	160.8	179.9	232.1	218.2	179.9	22.4
87.5°	3.2	3.2	25.6	27.7	22.4	28.8	29.8	33.0	70.3	66.0	11.7
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°	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7	1296.7
2.5°	1298.8	1291.4	1264.8	1242.4	1223.2	1211.5	1197.8	1189.2	1185.0	1181.8	1182.8
5°	1304.2	1286.1	1240.3	1204.1	1176.4	1146.6	1126.4	1114.7	1109.4	1100.9	1100.9
7.5°	1334.0	1305.2	1241.4	1186.0	1138.1	1097.7	1059.3	1045.4	1035.9	1033.8	1031.7
10°	1376.5	1340.4	1253.1	1176.4	1108.3	1052.9	998.6	950.8	913.5	891.1	887.9
12.5°	1429.8	1377.6	1271.2	1170.0	1082.7	984.8	841.1	744.2	679.3	659.0	662.2
15°	1478.8	1422.4	1289.3	1164.7	1035.9	816.6	653.7	542.9	510.0	506.8	507.8
17.5°	1537.3	1470.2	1310.6	1157.3	907.1	623.9	485.5	455.7	462.0	472.7	471.6
20°	1598.0	1521.4	1336.1	1112.6	723.9	469.5	429.1	432.3	441.9	451.4	453.6
22.5°	1663.0	1579.9	1366.0	1005.0	552.5	408.8	406.7	410.9	420.5	431.2	433.3
25°	1752.4	1653.4	1388.3	864.5	418.4	377.9	382.2	389.6	398.2	409.9	412.0
27.5°	1867.4	1752.4	1400.0	681.4	362.0	350.3	351.4	362.0	372.6	383.2	383.2
30°	2016.5	1870.6	1376.5	515.3	334.3	323.6	319.4	325.8	339.6	350.3	351.4
32.5°	2149.5	1982.3	1314.8	393.9	314.0	299.1	288.5	289.6	294.9	301.3	302.3
35°	2282.6	2091.0	1209.4	331.1	292.8	275.8	259.8	251.3	247.0	243.8	247.0
37.5°	2452.9	2226.1	1068.9	301.3	274.7	253.4	231.0	212.9	198.1	188.5	190.6
40°	2672.3	2413.5	902.8	282.2	257.7	232.1	202.3	178.9	153.3	144.8	140.5
42.5°	3034.2	2697.8	728.2	266.2	240.6	209.7	172.5	140.5	117.2	108.6	110.8
45°	3606.0	3056.6	561.0	249.1	223.5	185.3	144.8	110.8	91.6	87.3	89.4
47.5°	4363.9	3520.8	432.3	229.9	202.3	158.6	114.0	87.3	75.6	74.5	73.4
50°	5077.3	3953.0	360.9	208.7	176.7	132.0	93.7	73.4	66.0	64.9	64.9
52.5°	5722.4	4262.9	293.8	184.2	149.0	108.6	78.8	64.9	58.5	55.3	55.3
55°	6296.3	4465.1	238.5	154.4	117.2	86.2	68.1	58.5	51.1	46.8	45.8
57.5°	6729.6	4489.6	178.9	123.5	87.3	67.1	58.5	51.1	42.6	37.3	35.2
60°	6914.9	4277.7	132.0	93.7	64.9	53.2	46.8	41.5	32.0	26.6	25.6
62.5°	6728.5	3865.7	98.0	71.3	50.0	39.4	33.0	30.9	22.4	16.0	14.9
65°	6061.0	3270.6	77.7	54.3	37.3	28.8	21.3	20.3	13.9	7.5	6.4
67.5°	4855.8	2561.5	61.7	40.5	26.6	19.2	13.9	12.8	7.5	2.1	2.1
70°	3157.7	1637.4	50.0	29.8	17.1	12.8	8.5	6.4	4.3	1.1	0.0
72.5°	1561.8	765.5	40.5	23.5	11.7	6.4	3.2	2.1	3.2	0.0	0.0
75°	605.8	272.6	29.8	16.0	6.4	3.2	2.1	0.0	1.1	0.0	0.0
77.5°	201.3	90.5	18.1	8.5	4.3	2.1	0.0	0.0	0.0	0.0	0.0
80°	74.5	35.2	9.6	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	13.9	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.9	8.5	4.3	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	6.4	4.3	3.2	2.1	1.1	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)