

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: P453253

Luminaire Tested: **GALN-SA4B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20617 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

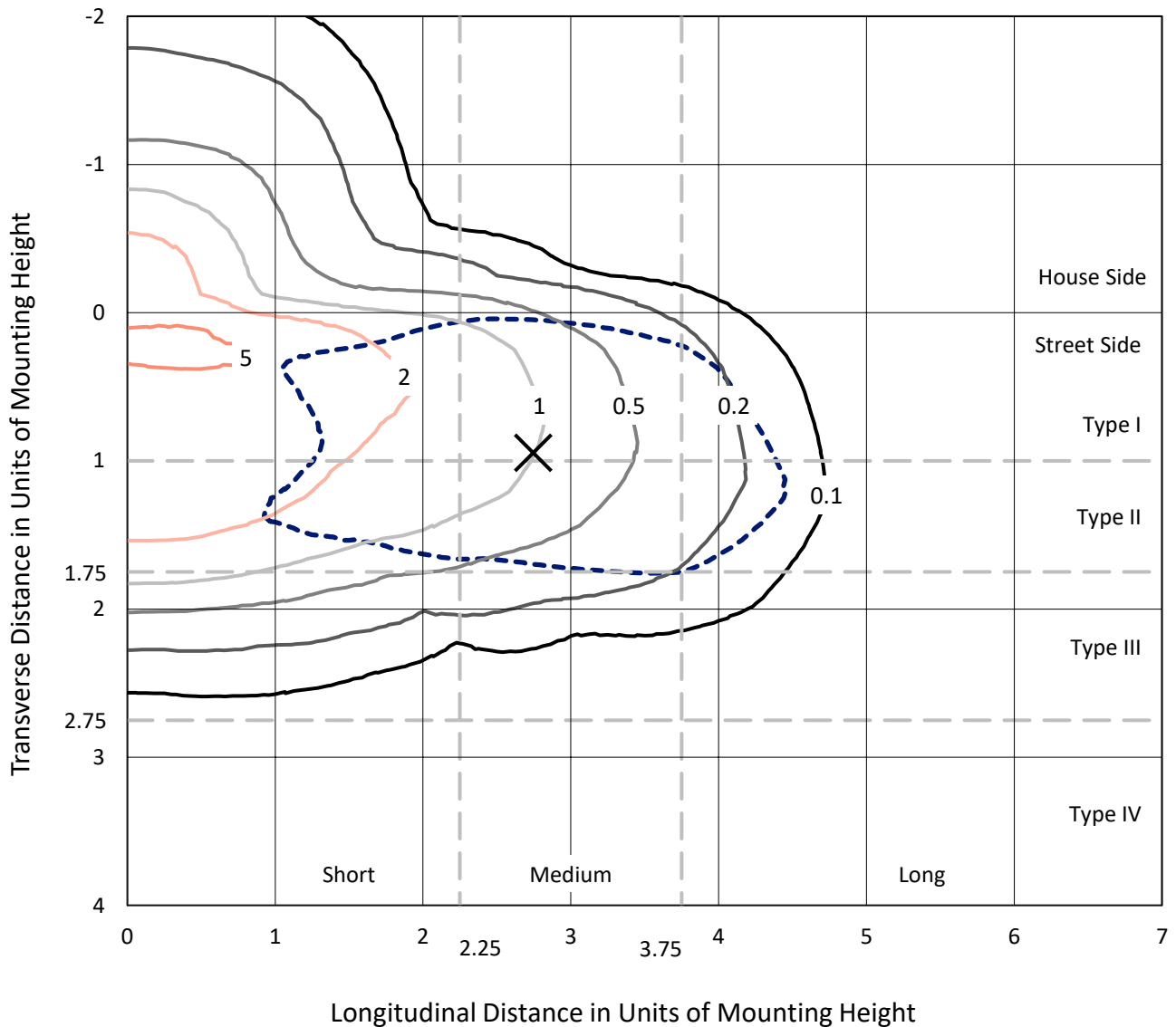
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

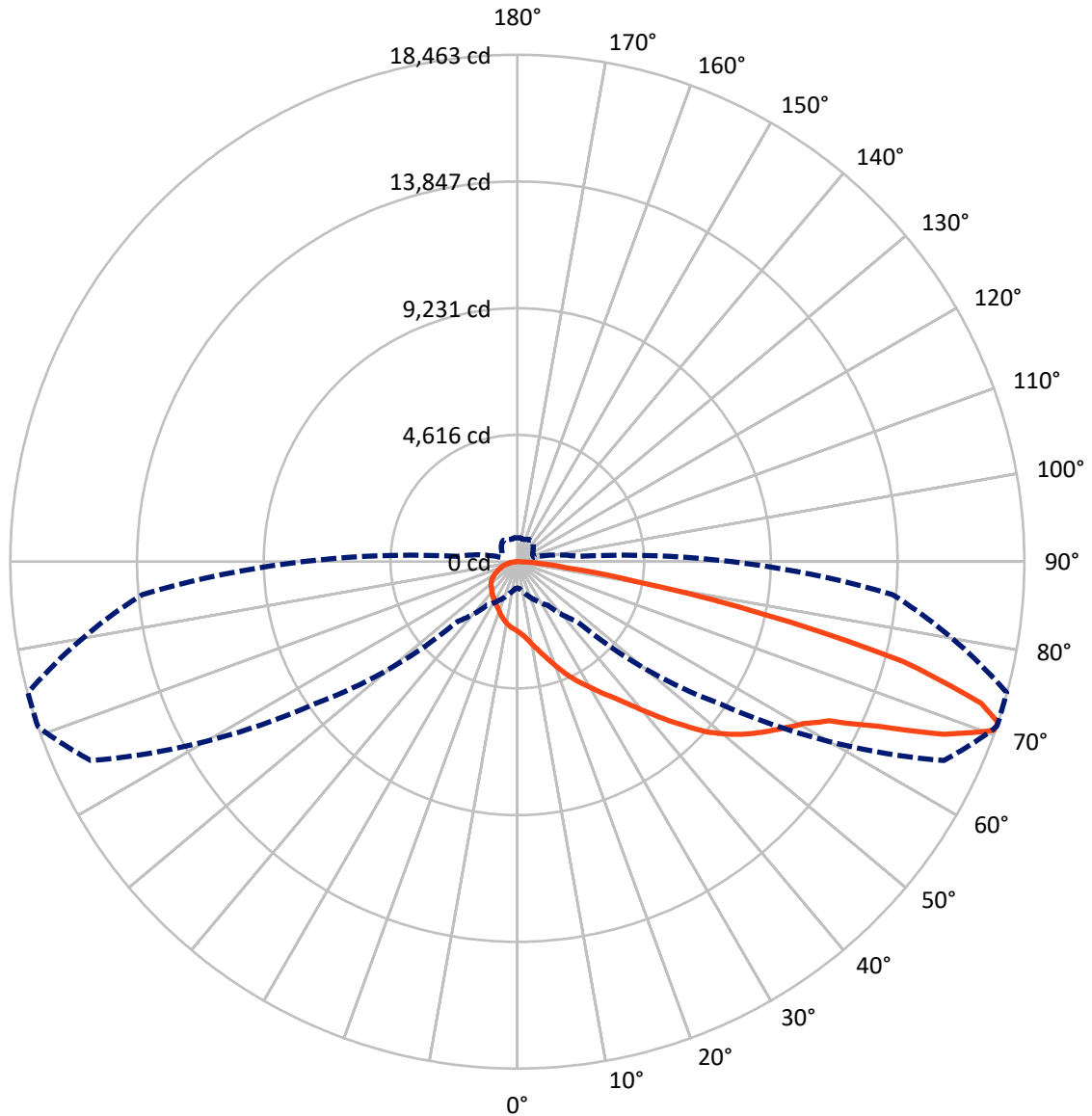
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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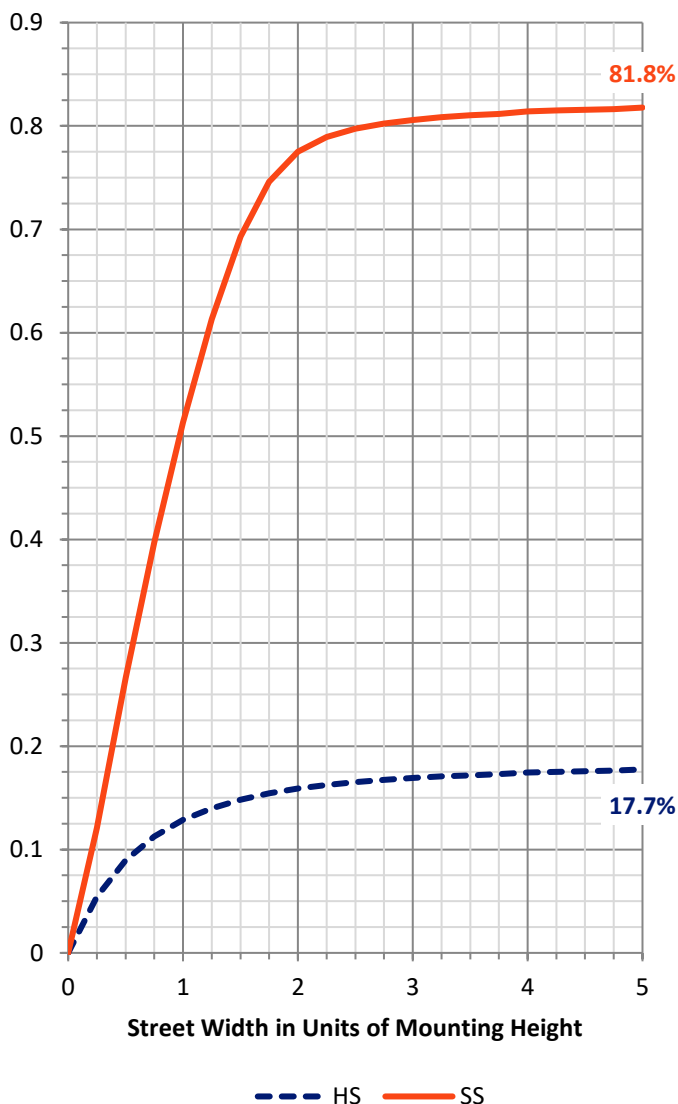
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3707.9	0.0	3707.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	16909.1	0.0	16909.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	20617.0	0.0	20617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.2
10°-20°	825.4	4.0
20°-30°	1442.5	7.0
30°-40°	2145.5	10.4
40°-50°	3161.2	15.3
50°-60°	4425.7	21.5
60°-70°	4950.0	24.0
70°-80°	3023.6	14.7
80°-90°	389.0	1.9
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°	20617.0	100.0
0°-180°	20617.0	100.0

Coefficient of Utilization



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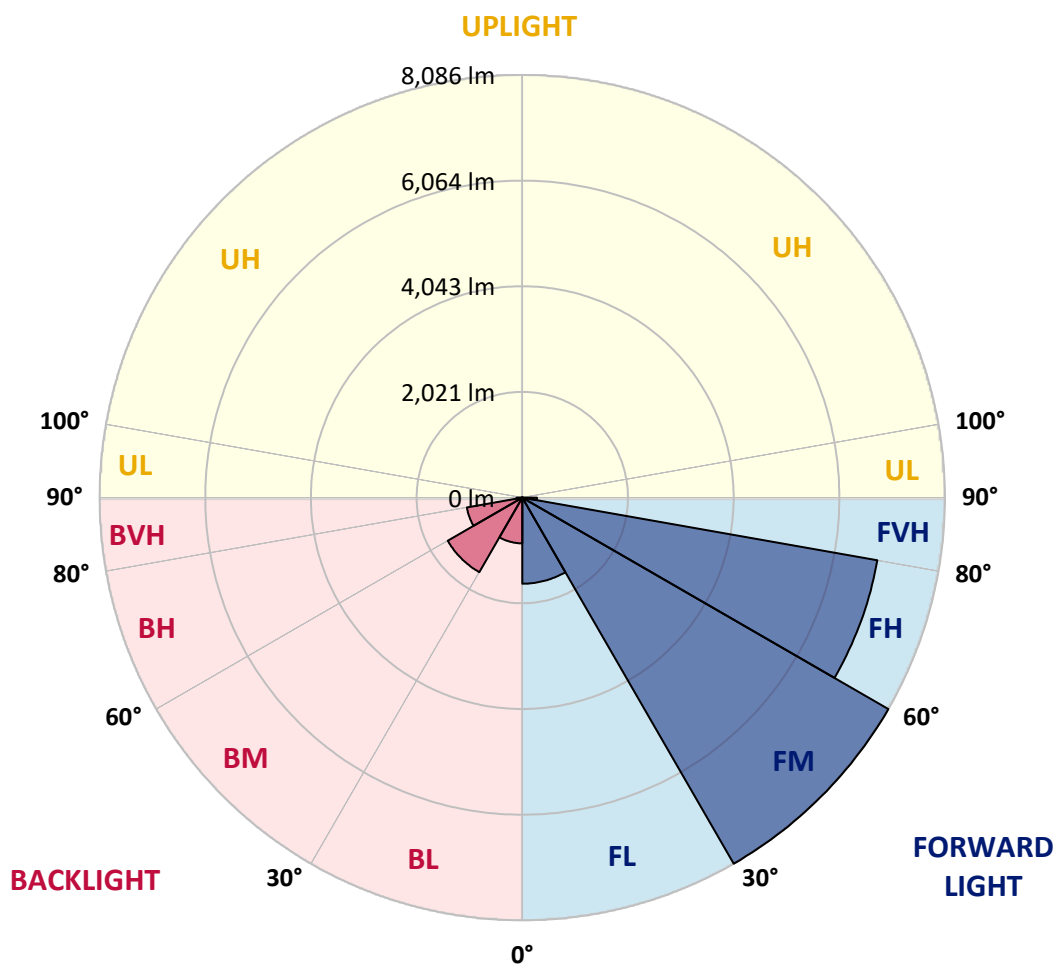
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.3	8.0			
FM	(30°-60°)	8085.6	39.2			
FH	(60°-80°)	6896.3	33.4			G3/7500
FVH	(80°-90°)	279.9	1.4			G3/500
BL	(0°-30°)	874.7	4.2	B2/1000		
BM	(30°-60°)	1646.8	8.0	B2/2500		
BH	(60°-80°)	1077.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	109.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3
2.5°	2809.1	2795.5	2796.6	2777.4	2752.4	2725.2	2686.7	2652.7	2625.5	2609.7	2563.2
5°	3112.8	3099.2	3082.2	3040.2	3022.1	2955.3	2870.3	2793.2	2734.3	2701.4	2608.5
7.5°	3358.7	3355.3	3350.7	3326.9	3280.5	3187.6	3115.0	2981.3	2894.1	2831.7	2673.1
10°	3510.5	3516.2	3519.6	3524.1	3504.8	3456.1	3356.4	3187.6	3076.5	2997.2	2757.0
12.5°	3587.6	3593.2	3612.5	3654.4	3680.5	3674.8	3593.2	3427.8	3274.8	3170.6	2846.5
15°	3635.2	3644.2	3678.2	3733.7	3821.0	3876.5	3836.9	3683.9	3516.2	3392.7	2953.0
17.5°	3687.3	3697.5	3734.9	3814.2	3928.6	4048.8	4091.8	3960.4	3777.9	3630.6	3072.0
20°	3716.7	3730.3	3783.6	3887.8	4021.6	4196.1	4338.8	4269.7	4070.3	3907.1	3209.1
22.5°	3764.3	3775.7	3821.0	3932.0	4091.8	4310.5	4585.9	4571.1	4395.5	4184.7	3359.8
25°	3893.5	3911.6	3934.3	4001.2	4155.3	4427.2	4791.0	4893.0	4710.5	4474.8	3498.0
27.5°	4137.1	4151.9	4150.7	4159.8	4247.1	4528.1	4968.9	5211.4	5023.3	4768.3	3631.8
30°	4414.8	4420.4	4425.0	4404.6	4423.8	4631.2	5132.0	5526.4	5338.3	5069.7	3748.5
32.5°	4752.4	4763.8	4725.2	4673.1	4657.3	4784.2	5266.9	5841.4	5711.1	5375.7	3864.1
35°	5151.3	5180.8	5102.6	5010.8	4946.2	5004.0	5448.2	6163.2	6093.0	5766.6	4017.0
37.5°	5606.8	5643.1	5570.6	5390.4	5298.6	5314.5	5685.0	6561.0	6575.7	6211.9	4244.8
40°	5979.6	6027.2	6029.5	5774.5	5635.2	5653.3	5985.3	6989.3	7158.1	6762.7	4513.3
42.5°	6225.5	6272.0	6320.7	6171.1	6025.0	6128.1	6335.5	7453.9	7813.1	7431.2	4888.4
45°	6495.2	6537.2	6564.4	6496.4	6414.8	6682.2	6758.1	7947.9	8511.1	8178.0	5298.6
47.5°	6808.0	6854.4	6880.5	6815.9	6785.3	7168.3	7213.7	8409.1	9256.7	8903.2	5751.9
50°	7225.0	7260.1	7246.5	7205.7	7198.9	7541.1	7651.0	8840.9	9872.0	9683.9	6222.1
52.5°	7744.0	7785.9	7800.6	7742.8	7716.8	7807.4	8003.5	9234.1	10431.8	10354.7	6724.1
55°	8057.8	8124.7	8349.1	8439.7	8502.0	8151.9	8383.1	9668.1	10933.8	11061.8	7263.5
57.5°	7655.6	7741.7	8243.7	8696.9	9282.8	9013.1	8921.3	10121.3	11435.8	11747.4	7909.4
60°	6674.3	6693.5	7340.6	8175.7	9354.2	10120.2	10044.3	10842.0	11979.7	12438.6	8760.4
62.5°	4630.1	4670.9	5435.7	6768.3	8472.6	10519.1	11954.8	12086.2	12759.3	13473.2	10008.0
65°	2387.6	2334.3	3031.2	4253.9	6387.6	9571.7	13502.6	14374.0	14450.0	15091.3	11764.4
67.5°	1469.7	1493.5	1819.8	2483.9	3776.8	6956.4	13340.6	17169.5	16769.5	17077.7	13395.0
70°	1103.7	1133.2	1357.5	1699.7	2302.6	3977.4	10728.7	17847.2	18405.8	18326.5	13891.3
71°	959.8	990.4	1223.8	1546.8	1934.3	3069.7	9039.2	17137.8	18462.5	18448.9	13704.3
72.5°	818.1	837.4	1019.8	1309.9	1630.6	2151.9	6791.0	15370.1	17674.9	18127.0	13036.9
75°	642.5	657.2	738.8	999.4	1283.9	1321.3	3644.2	11523.0	14516.8	15378.0	10853.3
77.5°	523.5	533.7	575.6	742.2	990.4	936.0	1911.6	7500.3	9094.7	9961.5	6393.2
80°	415.9	427.2	452.1	503.1	742.2	667.4	912.2	3800.6	4393.2	4384.2	2551.9
82.5°	322.9	326.3	355.8	369.4	507.7	473.7	494.1	1609.1	1782.4	1841.4	921.3
85°	204.0	214.2	315.0	283.3	303.7	277.6	243.6	639.1	787.5	776.2	368.3
87.5°	62.3	65.7	106.5	120.1	134.8	121.2	89.5	188.1	230.0	249.3	91.8
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°	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3	2530.3
2.5°	2545.1	2532.6	2488.4	2452.1	2418.1	2380.8	2349.0	2340.0	2332.0	2328.6	2327.5
5°	2568.9	2531.5	2444.2	2372.8	2316.2	2264.0	2231.2	2216.4	2201.7	2201.7	2206.2
7.5°	2602.9	2534.9	2400.0	2293.5	2222.1	2173.4	2149.6	2147.3	2150.7	2154.1	2155.3
10°	2640.2	2532.6	2335.4	2202.8	2139.4	2116.7	2117.9	2137.1	2155.3	2168.9	2171.1
12.5°	2676.5	2519.0	2259.5	2117.9	2077.1	2081.6	2113.3	2156.4	2191.5	2210.8	2211.9
15°	2717.3	2497.5	2167.7	2037.4	2023.8	2058.9	2117.9	2183.6	2236.8	2268.6	2272.0
17.5°	2751.3	2461.2	2071.4	1959.2	1976.2	2040.8	2122.4	2207.4	2272.0	2311.6	2318.4
20°	2789.8	2414.7	1971.7	1884.4	1933.2	2020.4	2113.3	2205.1	2272.0	2310.5	2319.6
22.5°	2820.4	2349.0	1876.5	1823.2	1894.6	1995.5	2082.7	2156.4	2210.8	2231.2	2244.8
25°	2832.9	2266.3	1787.0	1773.4	1864.0	1954.7	2013.6	2055.5	2072.5	2070.3	2075.9
27.5°	2826.1	2171.1	1709.9	1733.7	1825.5	1891.2	1920.7	1917.3	1886.7	1858.4	1872.0
30°	2797.8	2057.8	1645.3	1692.9	1775.7	1811.9	1807.4	1763.2	1705.4	1652.1	1655.5
32.5°	2746.8	1935.4	1585.3	1646.5	1705.4	1721.3	1690.7	1632.9	1550.2	1481.0	1470.8
35°	2703.7	1818.7	1532.0	1593.2	1635.1	1627.2	1597.7	1523.0	1448.2	1387.0	1376.8
37.5°	2696.9	1719.0	1481.0	1533.2	1557.0	1545.6	1509.4	1445.9	1418.7	1372.2	1366.6
40°	2733.2	1648.7	1428.9	1469.7	1481.0	1472.0	1432.3	1396.0	1421.0	1409.6	1409.6
42.5°	2831.7	1611.3	1382.4	1406.2	1415.3	1422.1	1393.8	1363.2	1393.8	1341.7	1324.7
45°	2988.1	1612.5	1340.5	1343.9	1371.1	1394.9	1375.6	1330.3	1314.5	1210.2	1189.8
47.5°	3218.2	1651.0	1306.5	1285.0	1333.7	1373.4	1346.2	1280.5	1210.2	1141.1	1128.6
50°	3486.7	1720.1	1275.9	1223.8	1283.9	1346.2	1325.8	1248.7	1176.2	1134.3	1126.4
52.5°	3784.7	1807.4	1238.5	1155.8	1222.7	1333.7	1330.3	1244.2	1144.5	1116.2	1109.4
55°	4153.0	1893.5	1192.1	1076.5	1168.3	1323.5	1317.9	1206.8	1137.7	1117.3	1115.0
57.5°	4581.3	2018.1	1125.2	996.0	1106.0	1281.6	1269.1	1184.1	1115.0	1100.3	1099.2
60°	5271.4	2211.9	1030.0	922.4	1042.5	1207.9	1223.8	1145.6	1078.8	1075.4	1074.2
62.5°	6179.1	2483.9	931.5	846.5	968.8	1112.8	1158.1	1093.5	1040.2	1057.2	1059.5
65°	7432.3	2712.8	829.5	781.9	887.3	1021.0	1095.8	1044.8	997.2	1030.0	1030.0
67.5°	8249.4	2717.3	736.5	715.0	804.5	943.9	1030.0	987.0	941.6	997.2	999.4
70°	8079.4	2380.8	659.5	644.8	724.1	861.2	957.5	923.5	871.4	921.3	903.1
71°	7805.2	2193.8	628.9	617.6	692.4	821.5	923.5	895.2	843.1	875.9	865.7
72.5°	7367.8	1904.8	579.0	581.3	644.8	771.7	875.9	846.5	794.3	812.5	809.1
75°	6227.8	1663.5	495.2	505.4	554.1	686.7	780.7	758.1	704.8	704.8	701.4
77.5°	3893.5	1162.6	411.3	417.0	470.3	588.1	670.8	651.6	600.6	583.6	579.0
80°	1452.7	600.6	321.8	328.6	361.5	463.5	555.2	537.1	485.0	465.7	447.6
82.5°	549.6	301.4	236.8	231.2	266.3	353.5	435.1	413.6	372.8	326.3	312.8
85°	207.4	149.6	145.0	140.5	156.4	209.6	269.7	265.2	222.1	189.2	185.8
87.5°	54.4	48.7	56.7	41.9	44.2	39.7	40.8	17.0	7.9	3.4	2.3
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)