

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: P648349

Luminaire Tested: **GALN-SA3B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648349
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-SA3B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 9577.6 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

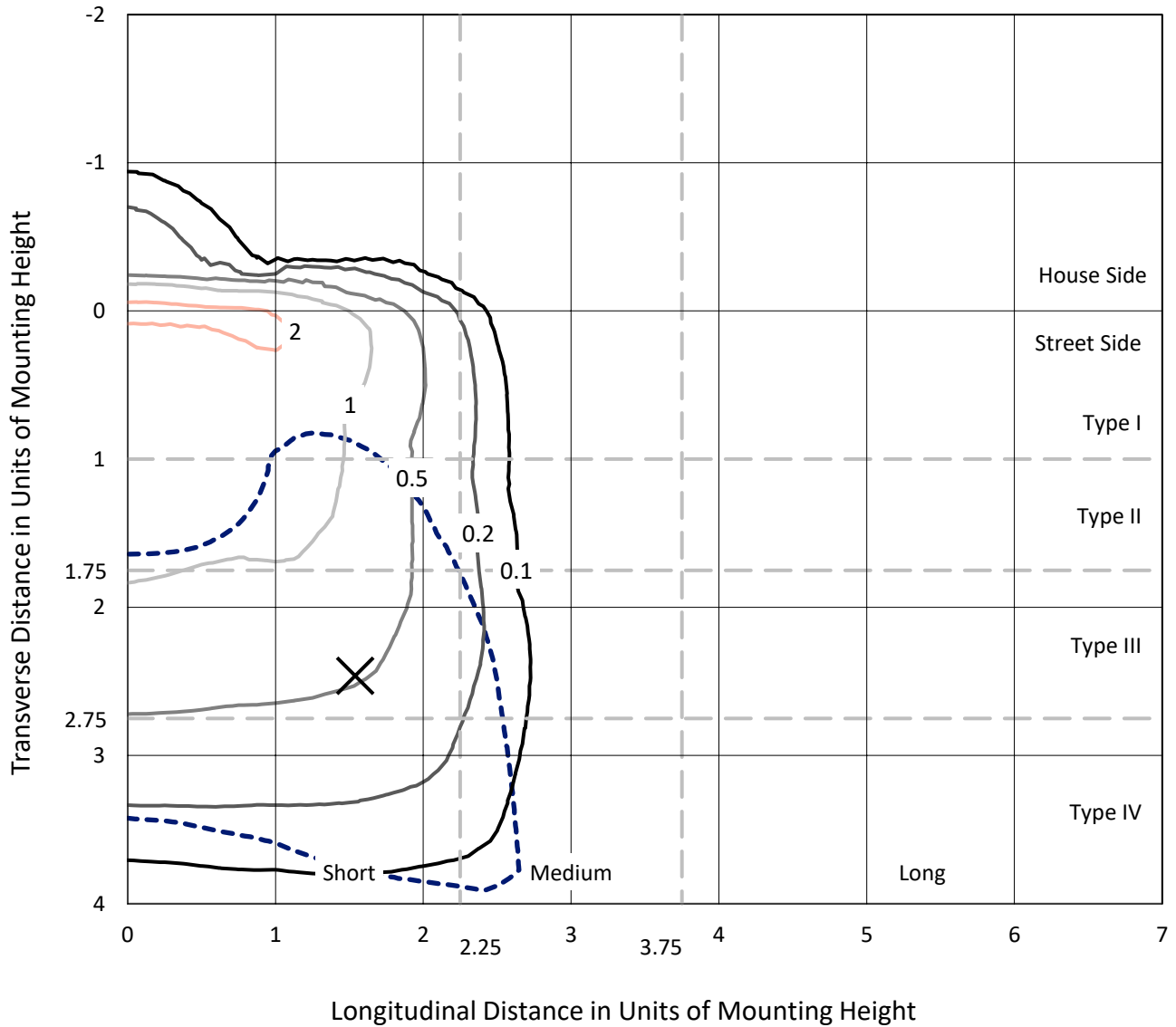
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

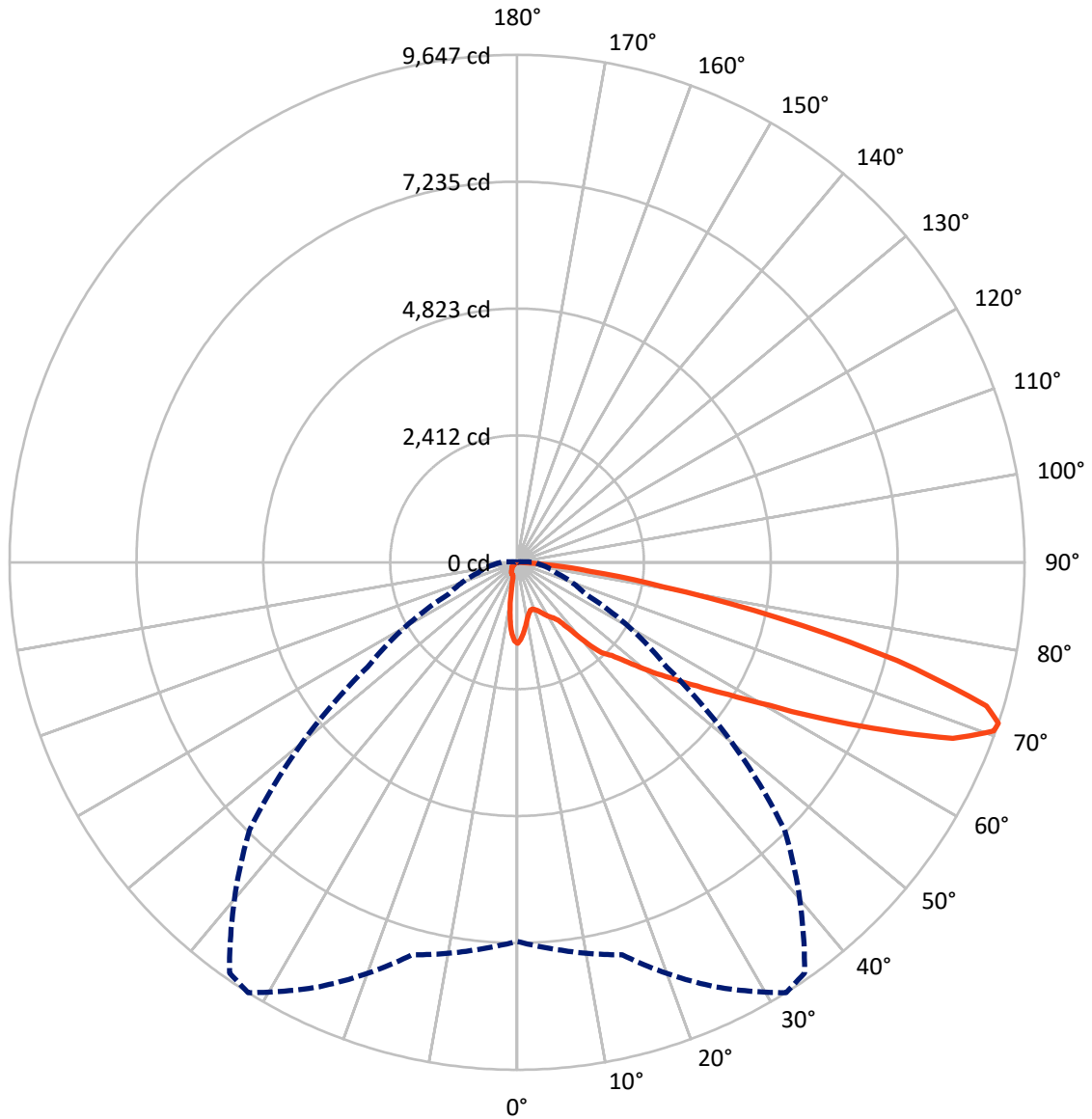
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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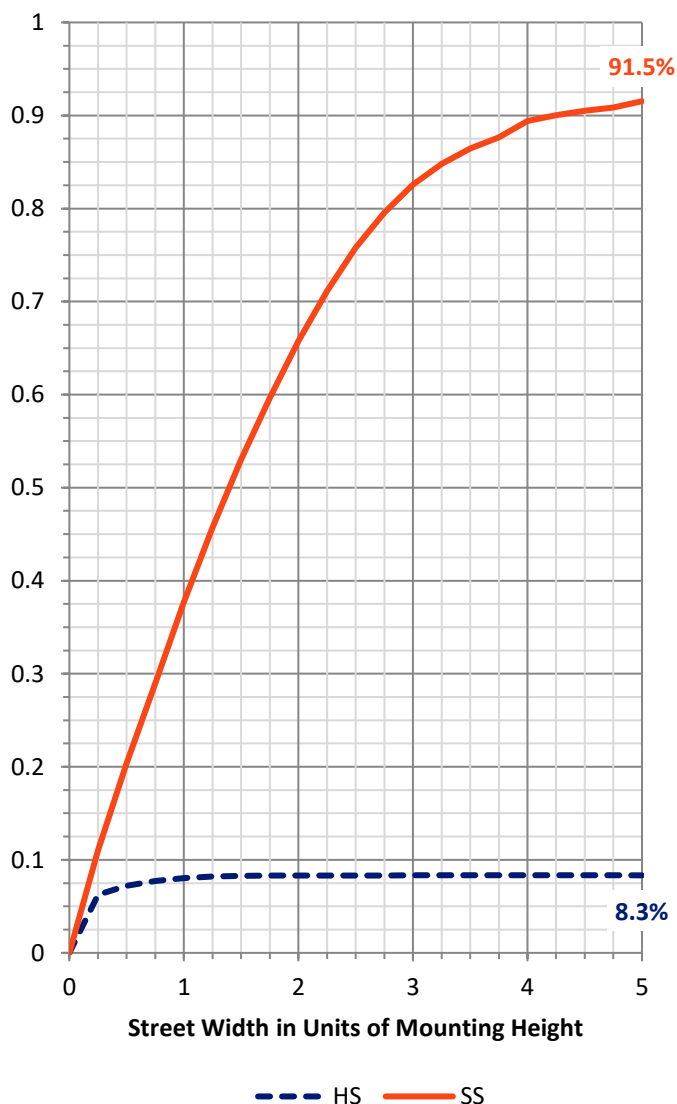
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	802.2	0.0	802.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8775.4	0.0	8775.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	9577.6	0.0	9577.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.3
10°-20°	271.8	2.8
20°-30°	422.9	4.4
30°-40°	704.5	7.4
40°-50°	1310.5	13.7
50°-60°	2104.0	22.0
60°-70°	2830.0	29.5
70°-80°	1679.1	17.5
80°-90°	129.8	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°	9577.6	100.0
0°-180°	9577.6	100.0

Coefficient of Utilization

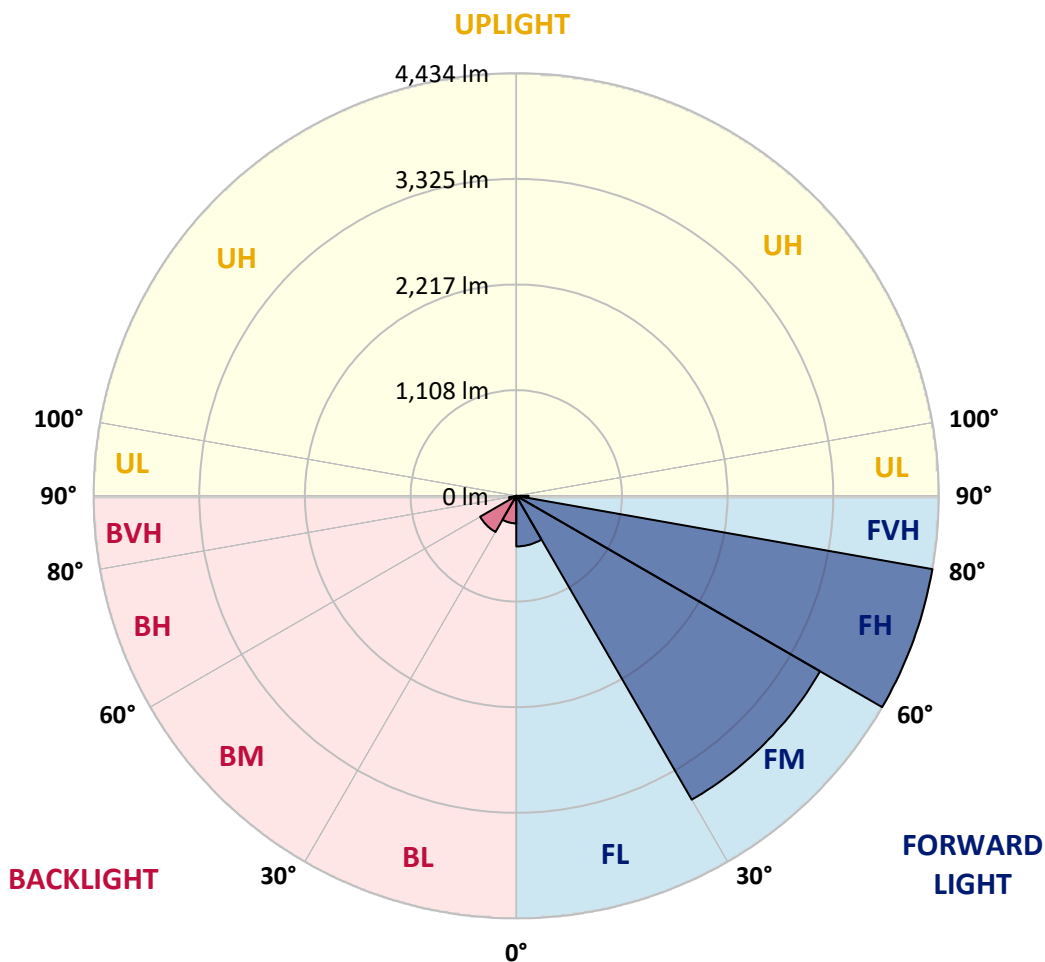


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.9	5.5			
FM (30°-60°)	3681.3	38.4			
FH (60°-80°)	4434.0	46.3			G2/5000
FVH (80°-90°)	129.3	1.3			G2/225
BL (0°-30°)	289.1	3.0	B1/500		
BM (30°-60°)	437.6	4.6	B1/1000		
BH (60°-80°)	75.0	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1428.5	1443.2	1441.0	1446.1	1458.7	1463.7	1477.8	1493.2	1514.5	1529.2	1538.8
5°	1279.3	1290.3	1291.7	1317.5	1330.0	1343.9	1385.1	1430.0	1479.9	1519.6	1546.1
7.5°	1119.7	1125.6	1137.4	1171.1	1202.8	1216.8	1279.3	1357.2	1435.9	1510.1	1557.9
10°	988.1	994.7	1016.0	1052.0	1081.5	1099.9	1186.6	1284.4	1394.7	1504.9	1574.8
12.5°	913.1	916.8	924.9	957.2	994.7	1014.5	1107.9	1219.7	1361.6	1507.1	1603.4
15°	908.0	906.5	896.9	910.2	944.0	964.6	1055.7	1175.6	1332.2	1514.5	1637.3
17.5°	935.1	931.5	908.7	908.7	936.6	953.5	1033.7	1152.0	1317.5	1531.4	1685.1
20°	977.1	971.2	933.7	930.8	957.9	975.6	1046.9	1153.5	1320.5	1563.0	1749.1
22.5°	1030.0	1023.4	966.8	968.3	997.7	1015.3	1085.2	1180.0	1338.8	1602.0	1817.4
25°	1099.1	1091.7	1024.9	1021.9	1052.8	1068.2	1141.8	1227.0	1364.5	1650.5	1907.1
27.5°	1191.0	1175.6	1095.4	1091.0	1124.2	1144.0	1210.1	1290.3	1410.1	1717.4	2027.7
30°	1266.7	1249.8	1173.4	1161.6	1196.9	1212.3	1280.7	1375.6	1499.8	1834.3	2194.6
32.5°	1366.0	1341.0	1251.3	1220.5	1257.9	1277.8	1382.9	1534.4	1632.9	1957.8	2393.1
35°	1589.5	1574.1	1464.5	1356.5	1354.2	1379.3	1533.6	1694.6	1769.6	2150.4	2663.6
37.5°	1909.3	1898.3	1782.1	1637.3	1595.4	1583.6	1716.6	1871.1	1988.0	2415.1	2978.3
40°	2280.6	2254.9	2148.2	2025.5	1971.0	1936.5	1932.8	2133.5	2273.2	2774.6	3306.2
42.5°	2546.7	2499.6	2370.3	2361.4	2349.7	2313.7	2209.2	2517.3	2641.5	3161.4	3656.8
45°	2826.1	2754.8	2562.1	2529.1	2524.6	2522.4	2626.9	2971.6	3043.0	3580.4	4017.1
47.5°	3043.0	2986.4	2828.3	2813.6	2832.0	2882.0	3179.0	3454.0	3439.2	3953.9	4319.3
50°	3331.9	3289.3	3113.5	3141.5	3236.4	3318.0	3801.7	3979.6	3765.0	4247.9	4539.1
52.5°	3673.1	3594.4	3431.2	3506.9	3652.5	3788.5	4462.6	4439.8	3993.6	4469.3	4703.1
55°	3968.6	3912.7	3856.8	3935.5	4153.1	4322.9	5059.6	4784.7	4159.8	4647.2	4775.1
57.5°	4468.5	4455.3	4398.0	4478.1	4742.0	4918.5	5594.1	5052.3	4266.3	4739.8	4690.6
60°	5208.1	5186.8	5080.2	5182.4	5526.5	5803.7	6086.7	5292.7	4290.6	4703.8	4447.2
62.5°	6097.7	6025.0	5933.8	6084.5	6556.5	6678.5	6550.6	5435.3	4200.2	4417.1	3860.5
65°	6928.5	6853.5	6855.7	7173.3	7687.2	7770.3	7091.7	5414.0	3935.5	3698.7	2847.4
67.5°	7564.4	7552.0	7641.6	8261.4	8933.4	8876.0	7575.4	5094.9	3151.0	2397.5	1513.1
70°	7596.8	7621.0	7878.4	8924.6	9606.8	9515.6	7534.3	4141.4	1964.5	1102.8	596.3
71°	7205.6	7368.9	7724.7	8904.0	9646.5	9528.2	7187.3	3468.7	1441.0	769.0	430.1
72.5°	6140.4	6226.4	6995.4	8379.7	9332.6	9079.7	6307.2	2431.3	922.7	470.5	247.0
75°	3381.9	3593.7	4684.7	6574.1	7464.4	7242.4	4110.5	1155.0	460.2	257.3	102.2
77.5°	1610.1	1568.9	2285.7	3909.8	5061.1	5049.3	2071.0	513.2	268.3	174.2	51.4
80°	460.2	517.6	874.8	1858.6	2810.0	2840.8	795.4	247.7	186.0	136.0	26.5
82.5°	139.0	141.9	321.3	821.9	1397.6	1317.5	298.5	126.5	133.8	108.1	15.4
85°	24.3	30.1	94.8	289.6	533.0	404.3	75.0	60.3	88.2	71.3	8.8
87.5°	1.5	2.2	31.6	33.1	47.1	27.2	13.2	8.8	19.1	19.1	5.2
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°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1545.4	1549.8	1546.8	1540.2	1529.2	1516.0	1498.3	1483.6	1471.1	1464.5	1472.6
5°	1555.0	1560.8	1546.1	1513.1	1463.0	1408.6	1346.9	1299.1	1261.6	1249.8	1245.4
7.5°	1569.7	1573.3	1533.6	1460.1	1354.2	1225.6	1113.1	1018.2	944.7	922.7	890.3
10°	1588.8	1586.6	1511.6	1374.8	1188.8	995.4	821.2	691.9	594.1	558.7	555.8
12.5°	1618.1	1606.4	1483.6	1258.7	991.7	738.8	523.4	409.5	347.7	327.1	322.8
15°	1654.9	1627.0	1439.5	1122.7	759.4	477.2	322.8	288.2	280.1	278.7	277.2
17.5°	1698.3	1654.2	1381.4	955.7	533.8	309.5	269.8	269.1	269.8	268.3	267.6
20°	1757.1	1682.9	1312.3	758.0	352.9	261.0	257.3	257.3	258.1	257.3	257.3
22.5°	1819.6	1716.6	1227.0	578.6	266.1	247.7	247.0	248.5	249.9	249.2	249.2
25°	1896.8	1760.8	1114.5	396.3	238.2	236.7	237.5	240.4	243.4	244.1	243.4
27.5°	2008.6	1815.2	994.0	272.7	218.4	219.8	227.1	234.5	239.0	239.7	239.7
30°	2134.3	1875.5	836.6	221.3	202.2	202.2	211.0	225.0	234.5	236.0	236.7
32.5°	2296.0	1945.4	662.4	199.3	186.7	185.3	193.3	210.2	227.9	233.0	233.0
35°	2496.0	2027.7	492.6	185.3	175.7	172.0	176.4	190.4	213.2	227.9	229.4
37.5°	2730.6	2105.6	360.3	172.8	165.4	160.3	163.2	174.2	192.6	214.7	220.6
40°	2947.4	2174.7	269.1	162.5	155.1	151.4	153.6	158.8	174.2	194.8	198.5
42.5°	3184.1	2228.4	213.9	151.4	144.9	143.4	143.4	145.6	155.9	167.6	168.3
45°	3420.1	2247.5	179.4	138.2	133.8	135.3	134.5	133.0	137.5	136.0	136.0
47.5°	3588.5	2224.7	148.5	125.7	125.7	127.9	124.3	119.1	116.9	108.1	108.8
50°	3703.9	2141.7	122.1	111.0	116.9	119.8	112.5	104.4	96.3	86.8	84.6
52.5°	3751.7	1993.8	100.0	91.9	103.7	107.3	98.5	88.9	76.5	68.4	66.2
55°	3720.8	1811.5	83.1	75.0	87.5	91.9	83.1	72.0	58.1	49.3	47.8
57.5°	3584.8	1593.9	70.5	59.6	69.8	72.8	66.9	55.1	41.2	32.3	32.3
60°	3349.5	1368.9	57.3	47.1	52.2	56.6	50.7	39.7	28.0	19.9	18.4
62.5°	2872.4	1111.6	46.4	36.7	36.7	40.4	35.3	28.7	17.6	10.3	9.6
65°	2074.0	762.4	36.7	27.2	26.5	26.5	22.1	19.1	10.3	4.4	3.0
67.5°	1127.1	430.1	29.4	20.6	18.4	17.6	13.9	11.0	4.4	0.7	0.0
70°	443.3	165.4	22.8	13.9	11.7	11.0	7.4	5.2	3.0	0.0	0.0
71°	300.7	113.9	19.9	11.7	9.6	8.1	5.9	4.4	2.2	0.0	0.0
72.5°	172.0	70.5	15.4	8.8	7.4	5.9	4.4	3.0	2.2	0.0	0.0
75°	75.0	36.0	9.6	6.7	5.2	3.7	3.0	2.2	0.7	0.0	0.0
77.5°	38.2	19.9	6.7	5.2	3.0	2.2	1.5	0.7	0.0	0.0	0.0
80°	21.3	10.3	4.4	3.0	2.2	1.5	0.7	0.7	0.0	0.0	0.0
82.5°	11.7	5.9	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.4	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.5	0.0	0.0	0.0	0.0	0.7	0.7	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)