

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: P452441

Luminaire Tested: **GALN-SA3B-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452441
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-SA3B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12558 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

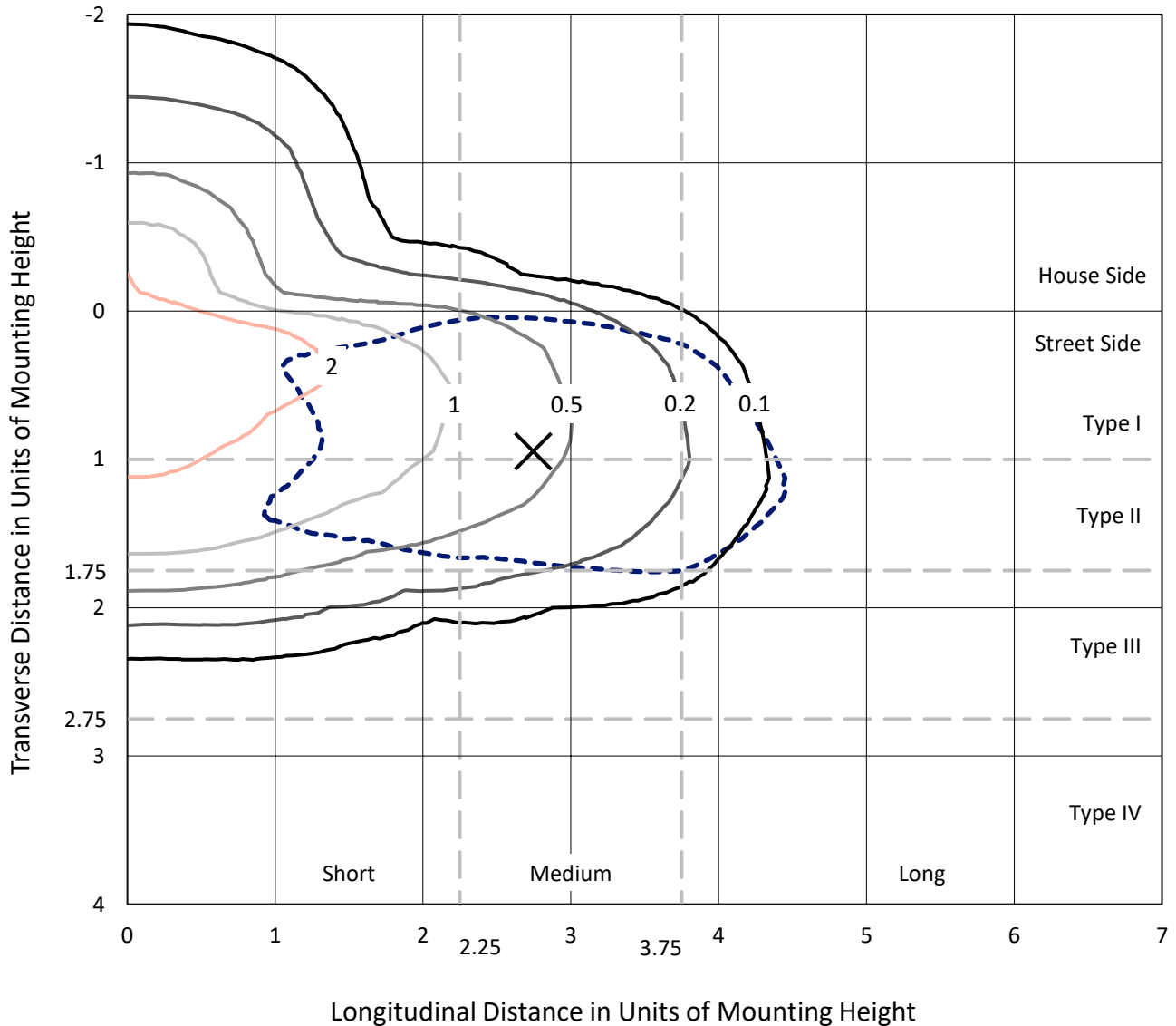
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

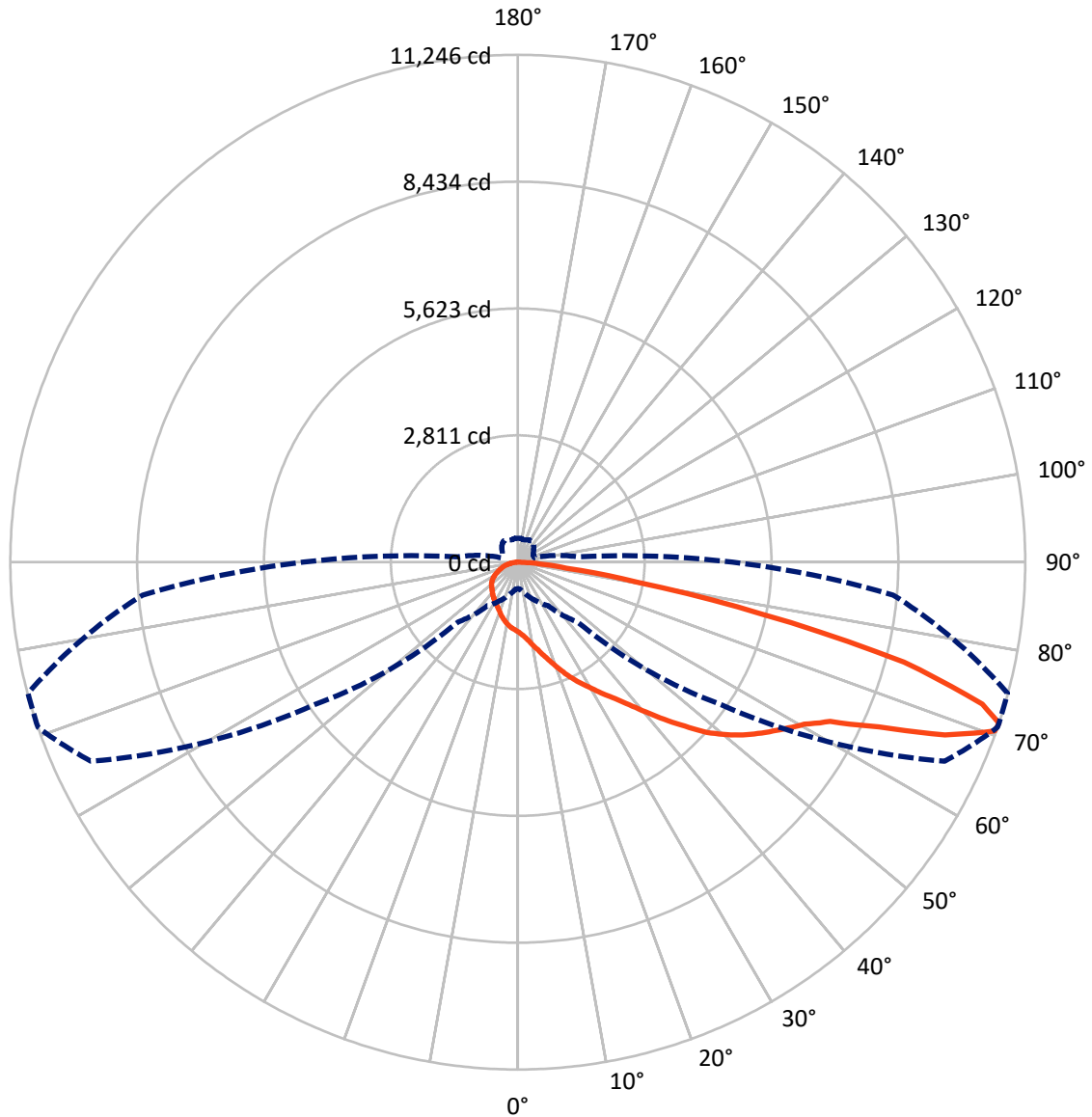
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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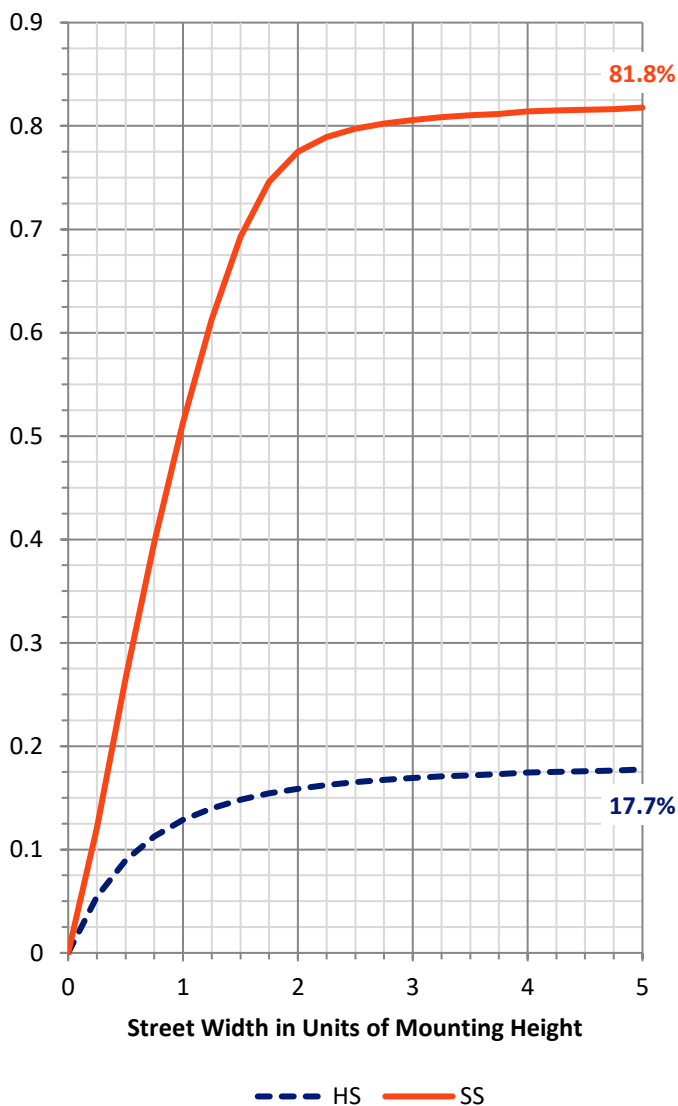
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.5	0.0	2258.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10299.5	0.0	10299.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	12558.0	0.0	12558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.2
10°-20°	502.8	4.0
20°-30°	878.6	7.0
30°-40°	1306.9	10.4
40°-50°	1925.5	15.3
50°-60°	2695.7	21.5
60°-70°	3015.1	24.0
70°-80°	1841.7	14.7
80°-90°	236.9	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°	12558.0	100.0
0°-180°	12558.0	100.0

Coefficient of Utilization



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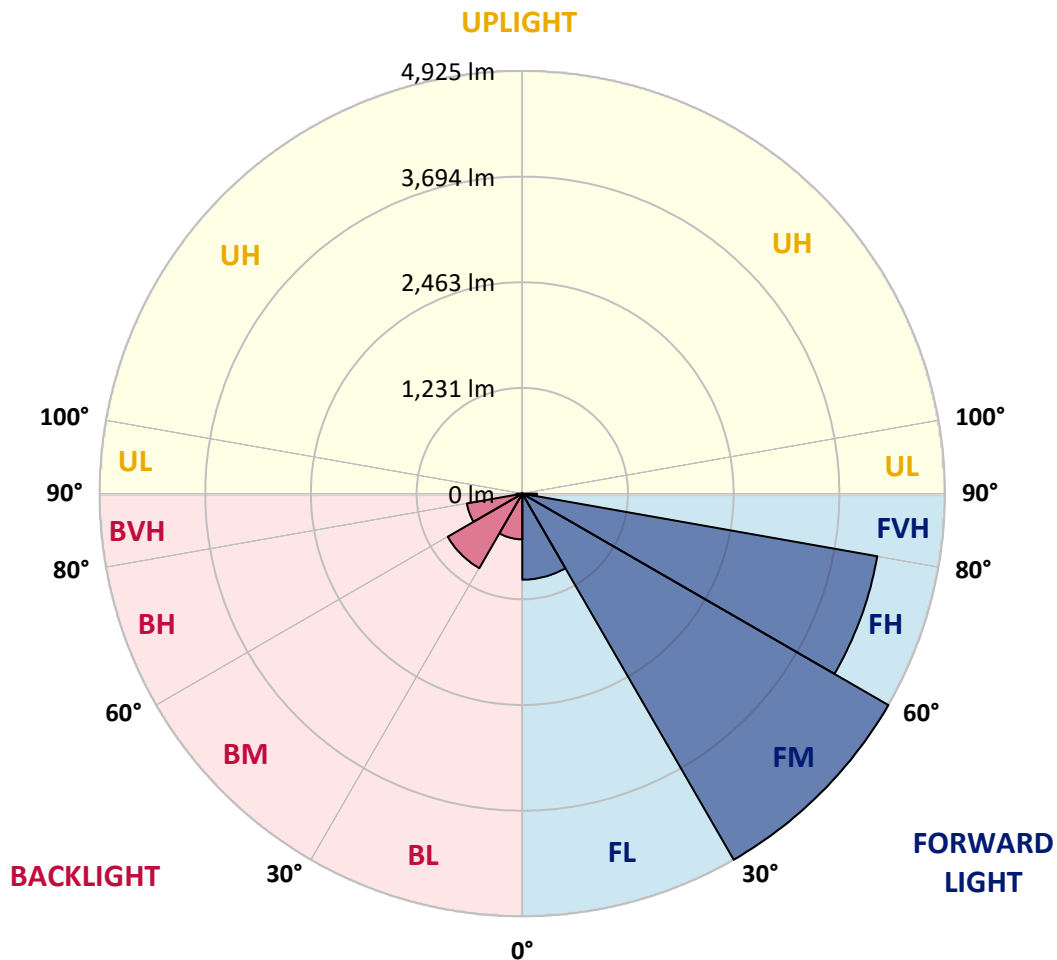
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.4	8.0			
FM (30°-60°)	4925.0	39.2			
FH (60°-80°)	4200.6	33.4			G2/5000
FVH (80°-90°)	170.5	1.4			G2/225
BL (0°-30°)	532.8	4.2	B2/1000		
BM (30°-60°)	1003.1	8.0	B2/2500		
BH (60°-80°)	656.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	66.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1711.0	1702.8	1703.4	1691.7	1676.5	1660.0	1636.5	1615.8	1599.2	1589.6	1561.3
5°	1896.0	1887.7	1877.4	1851.8	1840.8	1800.1	1748.3	1701.4	1665.5	1645.5	1588.9
7.5°	2045.8	2043.7	2041.0	2026.5	1998.2	1941.6	1897.4	1816.0	1762.8	1724.8	1628.2
10°	2138.3	2141.7	2143.8	2146.6	2134.8	2105.2	2044.4	1941.6	1873.9	1825.6	1679.3
12.5°	2185.2	2188.7	2200.4	2225.9	2241.8	2238.4	2188.7	2087.9	1994.7	1931.2	1733.8
15°	2214.2	2219.7	2240.4	2274.3	2327.4	2361.2	2337.1	2243.9	2141.7	2066.5	1798.7
17.5°	2246.0	2252.2	2274.9	2323.3	2393.0	2466.1	2492.4	2412.3	2301.2	2211.4	1871.2
20°	2263.9	2272.2	2304.6	2368.1	2449.6	2555.9	2642.8	2600.7	2479.2	2379.9	1954.7
22.5°	2292.9	2299.8	2327.4	2395.0	2492.4	2625.6	2793.3	2784.3	2677.3	2549.0	2046.5
25°	2371.6	2382.6	2396.4	2437.1	2531.0	2696.7	2918.2	2980.3	2869.2	2725.7	2130.7
27.5°	2520.0	2528.9	2528.3	2533.8	2586.9	2758.1	3026.6	3174.3	3059.7	2904.4	2212.1
30°	2689.1	2692.5	2695.3	2682.9	2694.6	2820.9	3126.0	3366.2	3251.6	3088.0	2283.2
32.5°	2894.8	2901.7	2878.2	2846.4	2836.8	2914.1	3208.1	3558.1	3478.7	3274.4	2353.6
35°	3137.7	3155.7	3108.0	3052.1	3012.8	3048.0	3318.5	3754.1	3711.3	3512.5	2446.8
37.5°	3415.2	3437.3	3393.1	3283.3	3227.4	3237.1	3462.8	3996.3	4005.3	3783.8	2585.5
40°	3642.3	3671.2	3672.6	3517.3	3432.4	3443.5	3645.7	4257.2	4360.1	4119.2	2749.1
42.5°	3792.0	3820.3	3850.0	3758.9	3669.9	3732.7	3859.0	4540.2	4759.0	4526.4	2977.6
45°	3956.3	3981.8	3998.4	3957.0	3907.3	4070.2	4116.4	4841.2	5184.2	4981.3	3227.4
47.5°	4146.8	4175.1	4191.0	4151.6	4133.0	4366.3	4393.9	5122.1	5638.4	5423.0	3503.5
50°	4400.8	4422.2	4413.9	4389.1	4384.9	4593.4	4660.3	5385.0	6013.1	5898.6	3790.0
52.5°	4716.9	4742.5	4751.4	4716.2	4700.4	4755.6	4875.0	5624.5	6354.1	6307.2	4095.7
55°	4908.1	4948.8	5085.5	5140.7	5178.7	4965.4	5106.2	5888.9	6659.9	6737.9	4424.3
57.5°	4663.1	4715.5	5021.3	5297.4	5654.2	5490.0	5434.1	6165.0	6965.6	7155.4	4817.7
60°	4065.4	4077.1	4471.2	4979.9	5697.7	6164.3	6118.1	6604.0	7296.9	7576.5	5336.0
62.5°	2820.2	2845.1	3311.0	4122.6	5160.7	6407.3	7281.8	7361.8	7771.8	8206.6	6096.0
65°	1454.3	1421.8	1846.3	2591.1	3890.7	5830.2	8224.6	8755.4	8801.6	9192.3	7165.8
67.5°	895.2	909.7	1108.5	1512.9	2300.5	4237.2	8125.9	10458.1	10214.5	10402.2	8159.0
70°	672.3	690.2	826.9	1035.3	1402.5	2422.6	6534.9	10870.9	11211.1	11162.8	8461.3
71°	584.6	603.2	745.4	942.1	1178.2	1869.8	5505.8	10438.8	11245.6	11237.4	8347.4
72.5°	498.3	510.1	621.2	797.9	993.2	1310.7	4136.4	9362.1	10766.0	11041.3	7940.9
75°	391.4	400.3	450.0	608.8	782.0	804.8	2219.7	7018.8	8842.3	9366.9	6610.9
77.5°	318.9	325.1	350.6	452.1	603.2	570.1	1164.4	4568.5	5539.7	6067.7	3894.2
80°	253.3	260.2	275.4	306.5	452.1	406.5	555.6	2315.0	2676.0	2670.4	1554.4
82.5°	196.7	198.8	216.7	225.0	309.2	288.5	300.9	980.1	1085.7	1121.6	561.1
85°	124.2	130.5	191.9	172.6	185.0	169.1	148.4	389.3	479.7	472.8	224.3
87.5°	38.0	40.0	64.9	73.2	82.1	73.9	54.5	114.6	140.1	151.8	55.9
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°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1550.2	1542.6	1515.7	1493.6	1472.9	1450.1	1430.8	1425.3	1420.5	1418.4	1417.7
5°	1564.7	1541.9	1488.8	1445.3	1410.8	1379.0	1359.0	1350.1	1341.1	1341.1	1343.8
7.5°	1585.4	1544.0	1461.9	1397.0	1353.5	1323.8	1309.3	1308.0	1310.0	1312.1	1312.8
10°	1608.2	1542.6	1422.5	1341.8	1303.1	1289.3	1290.0	1301.7	1312.8	1321.1	1322.4
12.5°	1630.3	1534.3	1376.3	1290.0	1265.2	1267.9	1287.2	1313.5	1334.9	1346.6	1347.3
15°	1655.1	1521.2	1320.4	1241.0	1232.7	1254.1	1290.0	1330.0	1362.5	1381.8	1383.9
17.5°	1675.8	1499.1	1261.7	1193.4	1203.7	1243.1	1292.8	1344.5	1383.9	1408.0	1412.2
20°	1699.3	1470.8	1201.0	1147.8	1177.5	1230.7	1287.2	1343.2	1383.9	1407.3	1412.9
22.5°	1717.9	1430.8	1143.0	1110.6	1154.0	1215.5	1268.6	1313.5	1346.6	1359.0	1367.3
25°	1725.5	1380.4	1088.5	1080.2	1135.4	1190.6	1226.5	1252.0	1262.4	1261.0	1264.5
27.5°	1721.4	1322.4	1041.5	1056.0	1111.9	1152.0	1169.9	1167.8	1149.2	1132.0	1140.2
30°	1704.1	1253.4	1002.2	1031.2	1081.6	1103.7	1100.9	1074.0	1038.8	1006.3	1008.4
32.5°	1673.1	1178.9	965.6	1002.9	1038.8	1048.4	1029.8	994.6	944.2	902.1	895.9
35°	1646.8	1107.8	933.2	970.4	996.0	991.1	973.2	927.6	882.1	844.8	838.6
37.5°	1642.7	1047.1	902.1	933.9	948.4	941.5	919.4	880.7	864.1	835.8	832.4
40°	1664.8	1004.3	870.4	895.2	902.1	896.6	872.4	850.3	865.5	858.6	858.6
42.5°	1724.8	981.5	842.1	856.6	862.1	866.2	849.0	830.3	849.0	817.2	806.9
45°	1820.1	982.2	816.5	818.6	835.2	849.7	837.9	810.3	800.6	737.1	724.7
47.5°	1960.2	1005.6	795.8	782.7	812.4	836.5	820.0	779.9	737.1	695.0	687.5
50°	2123.8	1047.7	777.2	745.4	782.0	820.0	807.5	760.6	716.4	690.9	686.1
52.5°	2305.3	1100.9	754.4	704.0	744.7	812.4	810.3	757.9	697.1	679.9	675.7
55°	2529.6	1153.3	726.1	655.7	711.6	806.2	802.7	735.1	693.0	680.6	679.2
57.5°	2790.5	1229.3	685.4	606.7	673.6	780.6	773.0	721.3	679.2	670.2	669.5
60°	3210.9	1347.3	627.4	561.8	635.0	735.8	745.4	697.8	657.1	655.0	654.3
62.5°	3763.7	1512.9	567.4	515.6	590.1	677.8	705.4	666.1	633.6	644.0	645.3
65°	4527.1	1652.4	505.2	476.2	540.4	621.9	667.4	636.4	607.4	627.4	627.4
67.5°	5024.8	1655.1	448.6	435.5	490.1	574.9	627.4	601.2	573.6	607.4	608.8
70°	4921.2	1450.1	401.7	392.7	441.0	524.6	583.2	562.5	530.8	561.1	550.1
71°	4754.2	1336.3	383.1	376.2	421.7	500.4	562.5	545.3	513.5	533.5	527.3
72.5°	4487.8	1160.2	352.7	354.1	392.7	470.0	533.5	515.6	483.8	494.9	492.8
75°	3793.4	1013.2	301.6	307.8	337.5	418.3	475.6	461.8	429.3	429.3	427.2
77.5°	2371.6	708.2	250.5	254.0	286.4	358.2	408.6	396.9	365.8	355.5	352.7
80°	884.9	365.8	196.0	200.2	220.2	282.3	338.2	327.2	295.4	283.7	272.6
82.5°	334.8	183.6	144.3	140.8	162.2	215.3	265.0	251.9	227.1	198.8	190.5
85°	126.3	91.1	88.3	85.6	95.2	127.7	164.3	161.5	135.3	115.3	113.2
87.5°	33.1	29.7	34.5	25.5	26.9	24.2	24.8	10.4	4.8	2.1	1.4
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)