

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: P528116

Luminaire Tested: **GALN-SA3A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9470 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

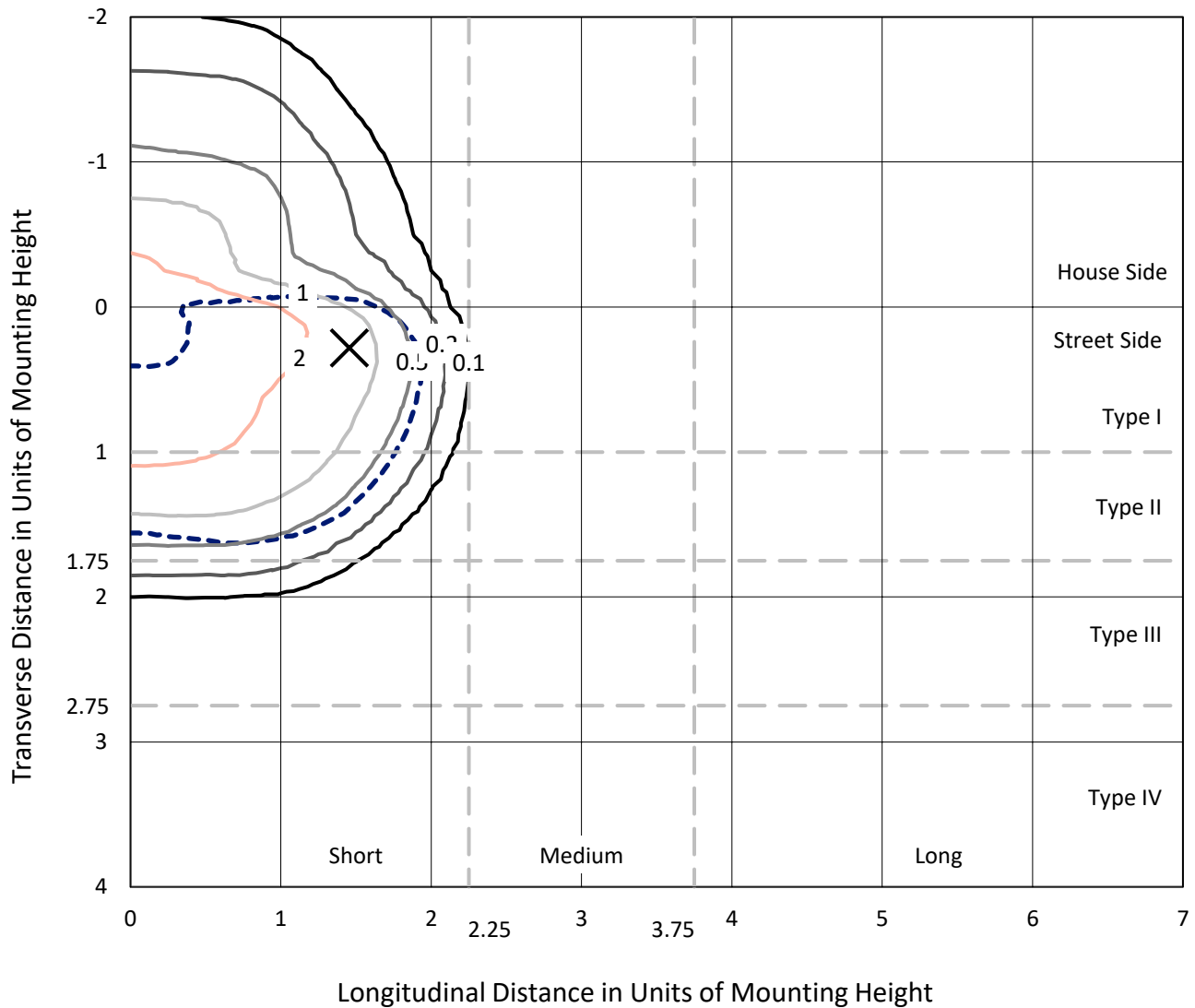
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

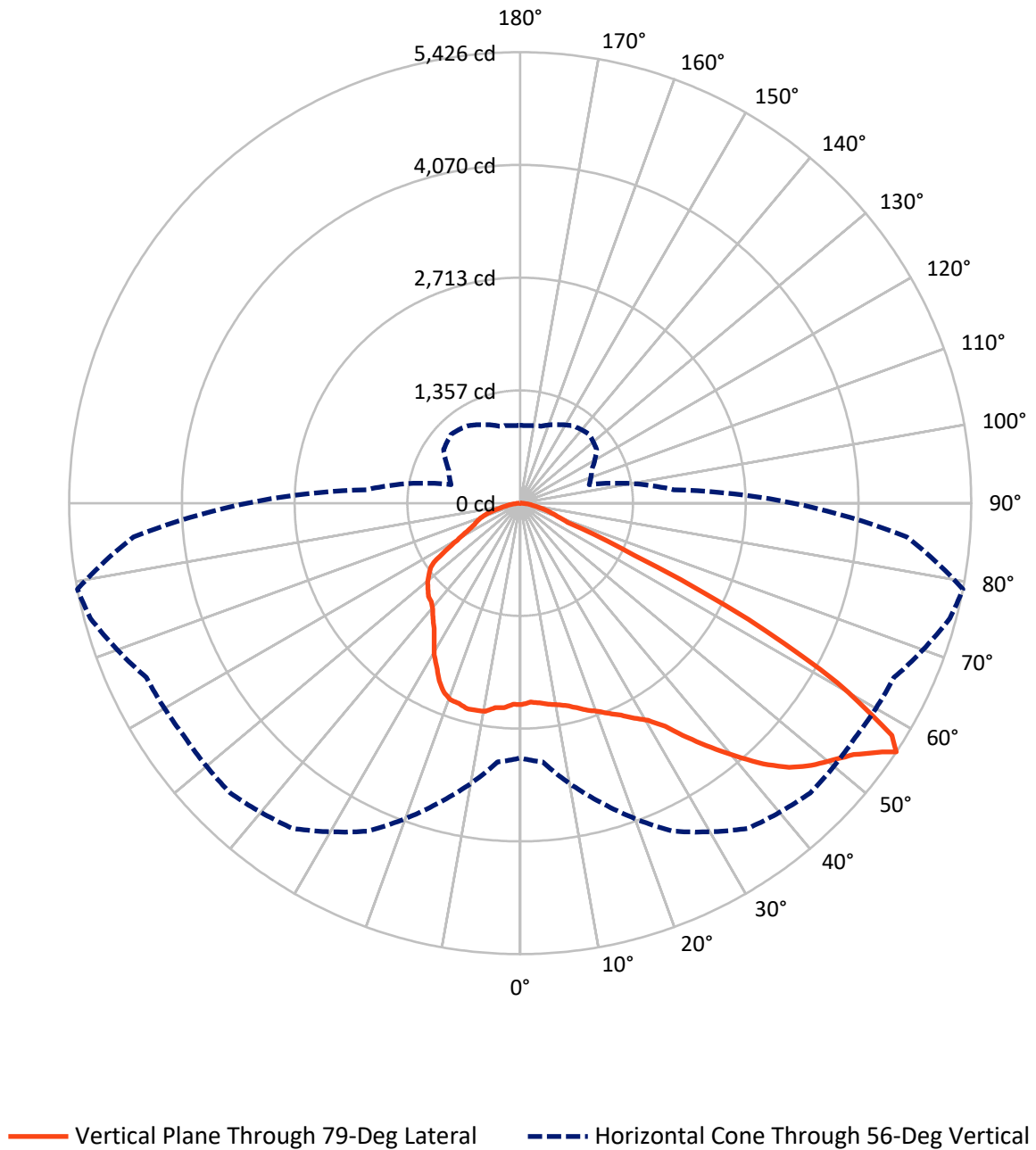
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.7	0.0	2796.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6673.3	0.0	6673.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	9470.0	0.0	9470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	2.3
10°-20°	602.9	6.4
20°-30°	1031.4	10.9
30°-40°	1580.8	16.7
40°-50°	2136.4	22.6
50°-60°	2453.8	25.9
60°-70°	1118.5	11.8
70°-80°	275.8	2.9
80°-90°	50.1	0.5
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°	9470.0	100.0
0°-180°	9470.0	100.0

Coefficient of Utilization



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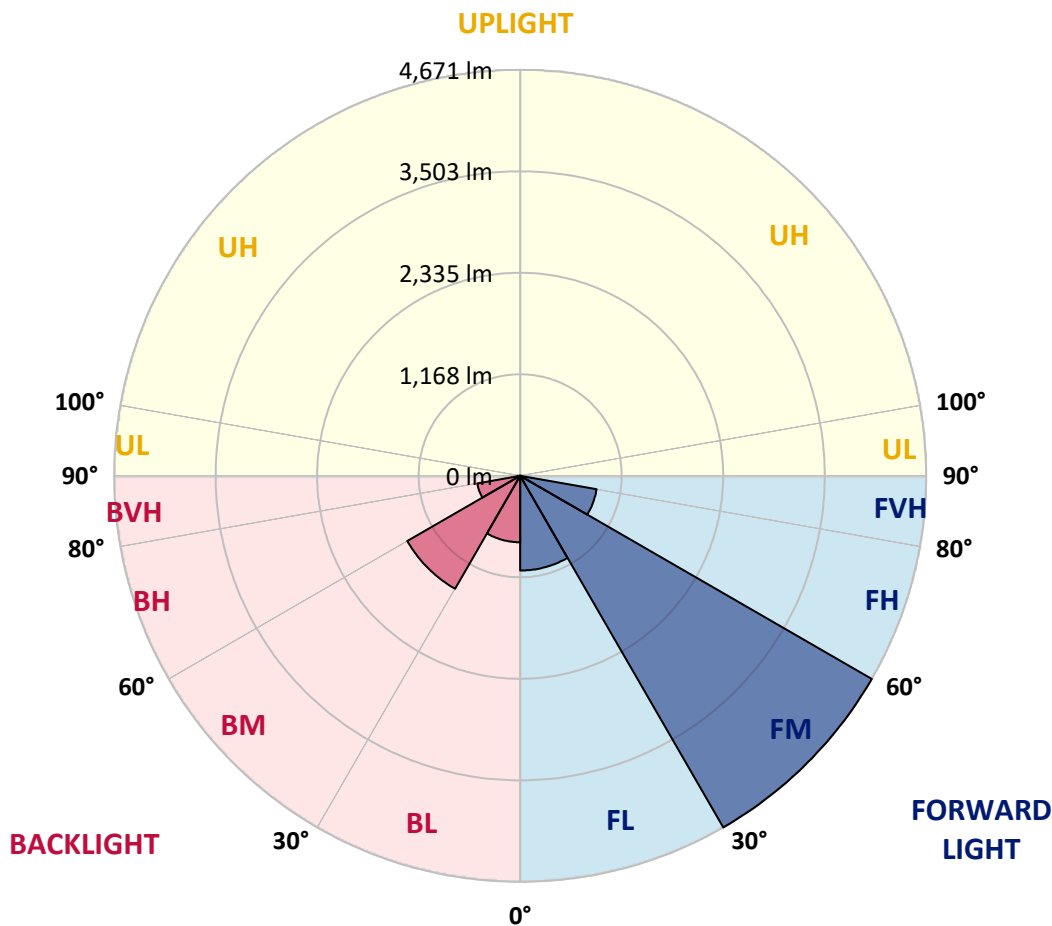
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.6	11.5			
FM	(30°-60°)	4670.9	49.3			
FH	(60°-80°)	892.8	9.4			G1/1800
FVH	(80°-90°)	20.0	0.2			G1/100
BL	(0°-30°)	765.0	8.1	B2/1000		
BM	(30°-60°)	1500.1	15.8	B2/2500		
BH	(60°-80°)	501.5	5.3	B2/1000		G2/1000
BVH	(80°-90°)	30.1	0.3			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2305.0	2299.1	2313.3	2323.9	2336.9	2353.4	2361.7	2366.4	2407.7	2397.0	2428.9
5°	2255.5	2240.2	2250.8	2259.0	2281.4	2301.5	2323.9	2359.3	2397.0	2413.6	2452.5
7.5°	2211.8	2203.6	2201.2	2207.1	2237.8	2263.7	2302.7	2354.6	2415.9	2443.1	2465.5
10°	2139.9	2128.1	2145.8	2184.7	2193.0	2247.2	2292.1	2366.4	2419.5	2466.6	2532.7
12.5°	2108.0	2096.2	2099.8	2122.2	2180.0	2231.9	2285.0	2368.7	2480.8	2499.7	2588.1
15°	2158.8	2147.0	2150.5	2144.6	2200.0	2227.2	2310.9	2415.9	2523.3	2555.1	2649.5
17.5°	2274.4	2275.5	2260.2	2247.2	2234.3	2292.1	2349.9	2444.2	2539.8	2620.0	2690.8
20°	2495.0	2456.0	2425.4	2352.2	2332.2	2356.9	2430.1	2520.9	2607.0	2673.1	2753.3
22.5°	2664.8	2668.4	2624.7	2504.4	2460.7	2471.4	2533.9	2608.2	2702.6	2749.8	2841.8
25°	2911.4	2886.6	2839.4	2743.9	2646.0	2654.2	2700.2	2767.5	2793.4	2826.4	2926.7
27.5°	3136.7	3143.8	3050.6	2960.9	2839.4	2815.8	2898.4	2910.2	2866.5	2929.1	2963.3
30°	3365.5	3359.6	3298.3	3193.3	3074.2	3078.9	3115.5	3057.6	2997.5	3031.7	3055.3
32.5°	3602.6	3535.4	3533.0	3438.7	3347.8	3304.2	3259.4	3287.7	3194.5	3201.6	3179.2
35°	3792.6	3802.0	3747.7	3680.5	3635.7	3559.0	3436.3	3487.0	3469.3	3461.1	3364.4
37.5°	3930.6	3894.0	3921.2	3898.7	3856.3	3760.7	3633.3	3681.7	3689.9	3730.0	3618.0
40°	4043.8	4028.5	4100.5	4112.3	4082.8	3876.3	3647.5	3791.4	3915.3	4002.5	3869.2
42.5°	4098.1	4131.1	4206.6	4297.5	4231.4	4010.8	3720.6	3875.1	4151.2	4289.2	4107.5
45°	4171.2	4128.8	4240.8	4407.2	4408.3	4124.1	3791.4	3988.4	4335.2	4535.7	4270.3
47.5°	4096.9	4118.2	4233.8	4444.9	4499.2	4243.2	3982.5	4148.8	4538.1	4716.2	4421.3
50°	3930.6	3973.1	4184.2	4403.6	4567.6	4369.4	4201.9	4322.2	4725.7	4861.3	4446.1
52.5°	3757.2	3780.8	4111.1	4435.5	4598.3	4532.2	4495.6	4561.7	4954.5	5025.3	4476.8
55°	3285.3	3397.4	3869.2	4421.3	4748.1	4825.9	4797.6	4894.4	5214.0	5284.8	4644.3
56°	3067.1	3126.1	3724.2	4355.3	4777.6	4933.3	4919.1	4962.8	5352.1	5426.4	4670.2
57.5°	2663.6	2668.4	3175.6	4062.7	4666.7	4965.1	4951.0	4985.2	5324.9	5274.2	4442.6
60°	1666.8	1740.0	2161.1	3124.9	3968.3	4606.5	4686.7	4411.9	4489.7	4382.4	3456.4
62.5°	863.5	852.9	1132.5	1827.3	2634.2	3298.3	3372.6	3359.6	3239.3	3082.4	2257.8
65°	430.6	432.9	592.2	904.8	1349.5	1727.0	1934.6	1957.0	1637.4	1506.4	1071.1
67.5°	312.6	324.4	425.9	553.3	635.8	711.3	871.8	855.2	647.6	615.8	570.9
70°	243.0	253.6	345.6	422.3	383.4	383.4	417.6	431.8	461.2	474.2	489.6
72.5°	176.9	185.2	264.2	291.4	251.3	270.1	312.6	345.6	376.3	381.0	398.7
75°	121.5	128.6	173.4	160.4	151.0	186.4	228.9	259.5	281.9	293.7	304.3
77.5°	79.0	81.4	99.1	83.8	96.7	120.3	148.6	174.6	197.0	206.4	208.8
80°	35.4	38.9	42.5	53.1	67.2	86.1	106.2	127.4	141.6	145.1	152.2
82.5°	20.1	20.1	26.0	37.7	49.5	62.5	76.7	92.0	108.5	112.1	110.9
85°	10.6	10.6	15.3	22.4	30.7	36.6	35.4	36.6	38.9	44.8	43.6
87.5°	3.5	3.5	4.7	4.7	5.9	7.1	5.9	8.3	10.6	10.6	10.6
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°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2419.5	2430.1	2415.9	2446.6	2446.6	2440.7	2411.2	2420.6	2427.7	2427.7	2433.6
5°	2465.5	2461.9	2471.4	2434.8	2412.4	2404.1	2355.8	2332.2	2312.1	2310.9	2293.2
7.5°	2491.4	2482.0	2478.4	2451.3	2352.2	2292.1	2188.2	2128.1	2115.1	2069.1	2086.8
10°	2532.7	2550.4	2532.7	2385.2	2247.2	2109.2	2007.8	1914.6	1878.0	1848.5	1830.8
12.5°	2617.6	2609.4	2506.8	2307.4	2113.9	1950.0	1799.0	1701.1	1664.5	1638.5	1636.2
15°	2689.6	2648.3	2491.4	2184.7	1906.3	1731.7	1607.9	1538.3	1521.7	1524.1	1534.7
17.5°	2714.4	2686.1	2411.2	2057.3	1751.8	1546.5	1488.7	1478.1	1493.4	1511.1	1515.8
20°	2753.3	2708.5	2378.2	1883.9	1560.7	1430.9	1427.4	1465.1	1493.4	1519.4	1522.9
22.5°	2834.7	2721.4	2270.8	1719.9	1429.7	1396.7	1430.9	1462.8	1506.4	1527.6	1508.8
25°	2858.3	2693.1	2119.8	1522.9	1347.2	1375.5	1412.0	1455.7	1486.4	1498.2	1506.4
27.5°	2878.3	2649.5	1915.7	1392.0	1321.2	1374.3	1412.0	1448.6	1465.1	1475.7	1485.2
30°	2935.0	2636.5	1738.8	1304.7	1304.7	1350.7	1399.1	1408.5	1430.9	1443.9	1460.4
32.5°	2963.3	2546.9	1557.1	1249.2	1288.2	1362.5	1366.0	1383.7	1384.9	1395.5	1377.8
35°	3037.6	2483.2	1388.4	1209.1	1295.3	1350.7	1368.4	1357.8	1300.0	1271.7	1277.6
37.5°	3091.9	2451.3	1266.9	1204.4	1296.4	1363.7	1373.1	1292.9	1232.7	1185.5	1197.3
40°	3238.1	2372.3	1174.9	1196.2	1307.1	1377.8	1351.9	1264.6	1156.1	1107.7	1099.4
42.5°	3350.2	2315.6	1117.1	1186.7	1315.3	1397.9	1341.3	1208.0	1097.1	1052.2	1064.0
45°	3480.0	2302.7	1086.5	1189.1	1329.5	1408.5	1328.3	1164.3	1046.3	1028.7	1025.1
47.5°	3526.0	2209.5	1053.4	1169.0	1325.9	1405.0	1284.6	1131.3	1027.5	1029.8	1039.3
50°	3449.3	2113.9	1028.7	1127.7	1302.3	1373.1	1216.2	1087.6	1016.9	1046.3	1062.9
52.5°	3351.4	2016.0	977.9	1072.3	1254.0	1323.6	1184.4	1085.3	1006.2	996.8	1000.3
55°	3380.9	1935.8	907.1	996.8	1176.1	1231.6	1149.0	1062.9	980.3	944.9	956.7
56°	3285.3	1853.2	861.1	949.6	1123.0	1172.6	1131.3	1042.8	959.1	935.5	935.5
57.5°	3015.2	1576.0	801.0	874.1	1011.0	1069.9	1097.1	1031.0	935.5	894.2	895.4
60°	2223.6	1120.7	718.4	770.3	837.6	884.7	1011.0	998.0	876.5	848.2	837.6
62.5°	1370.8	818.7	659.4	679.5	713.7	752.6	882.4	903.6	814.0	783.3	776.2
65°	768.0	626.4	614.6	622.9	639.4	659.4	732.6	779.7	718.4	671.2	668.9
67.5°	561.5	560.3	569.8	576.8	583.9	583.9	601.6	620.5	612.2	574.5	570.9
70°	499.0	502.5	509.6	510.8	513.1	504.9	490.7	484.8	494.3	470.7	466.0
72.5°	411.7	423.5	431.8	432.9	420.0	409.3	390.5	370.4	363.3	358.6	357.4
75°	316.1	324.4	327.9	326.8	322.0	306.7	284.3	264.2	251.3	237.1	244.2
77.5°	213.5	225.3	231.2	231.2	224.1	200.5	189.9	174.6	161.6	146.3	148.6
80°	149.8	158.1	167.5	166.3	154.5	142.7	127.4	113.2	102.6	90.8	89.7
82.5°	112.1	116.8	121.5	119.1	110.9	99.1	88.5	75.5	63.7	55.4	55.4
85°	40.1	43.6	53.1	55.4	60.2	60.2	50.7	42.5	34.2	28.3	28.3
87.5°	11.8	11.8	13.0	13.0	11.8	13.0	10.6	11.8	13.0	8.3	8.3
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)