

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: P529099

Luminaire Tested: **GALN-SA4B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12450 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

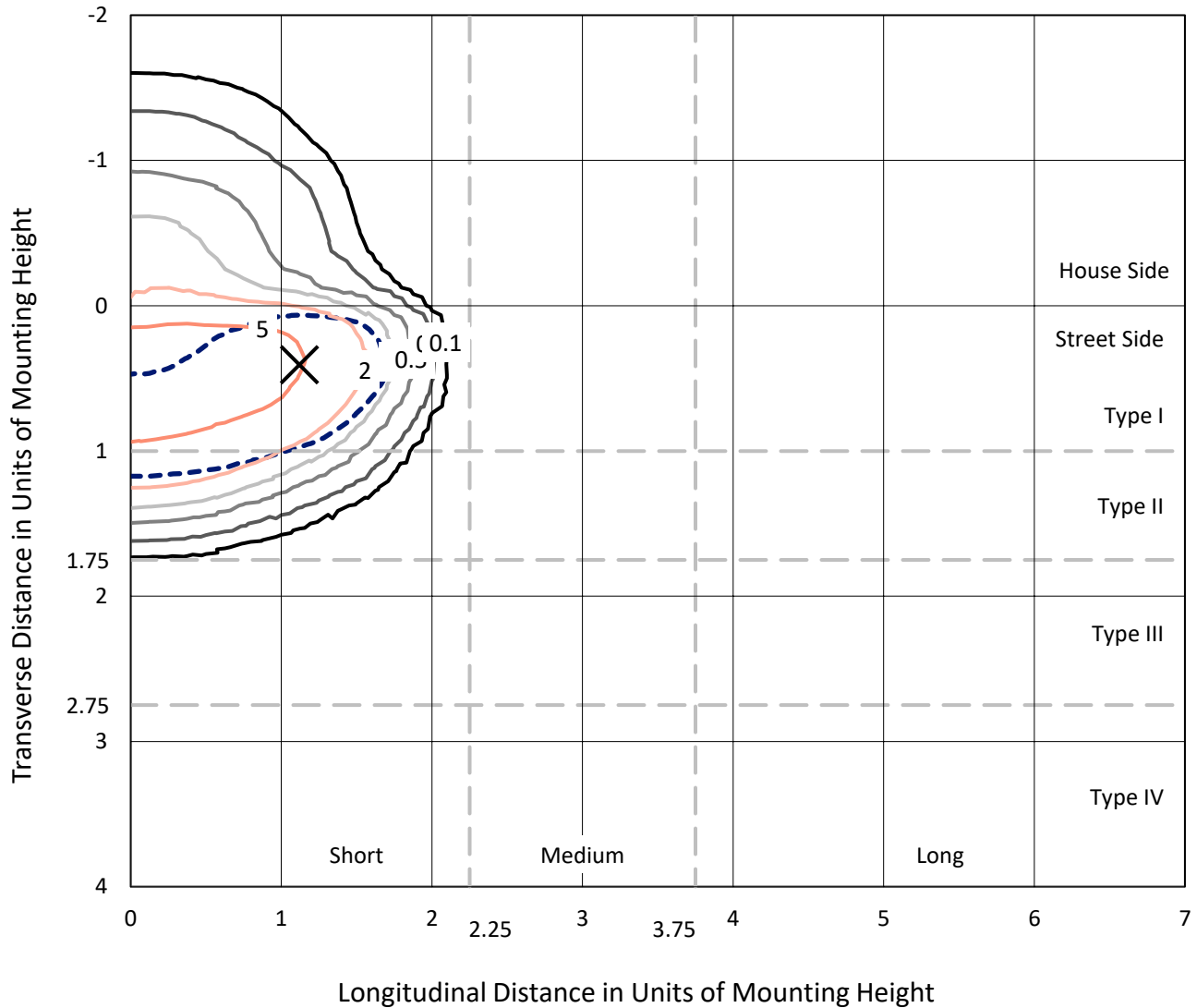
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

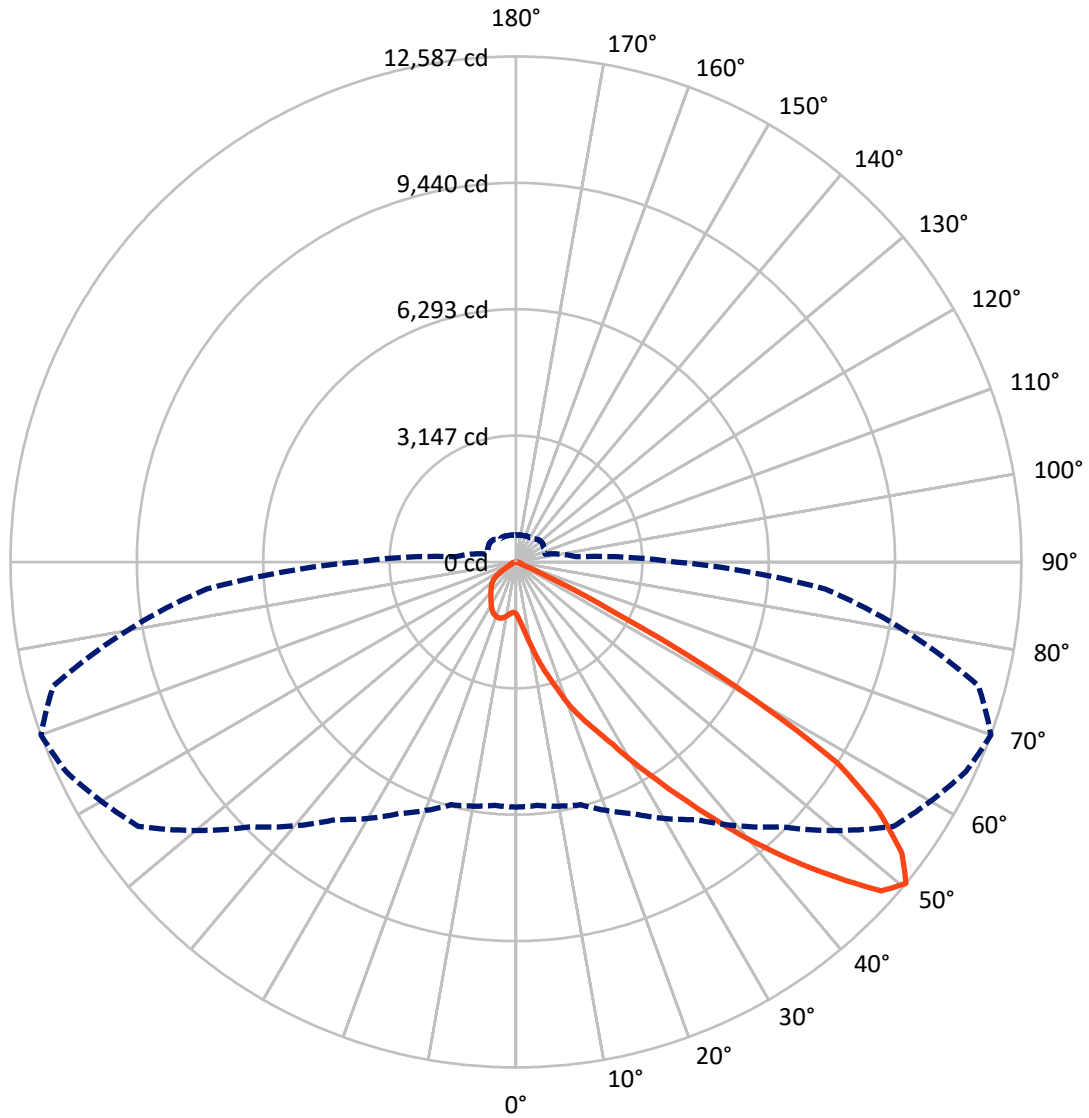
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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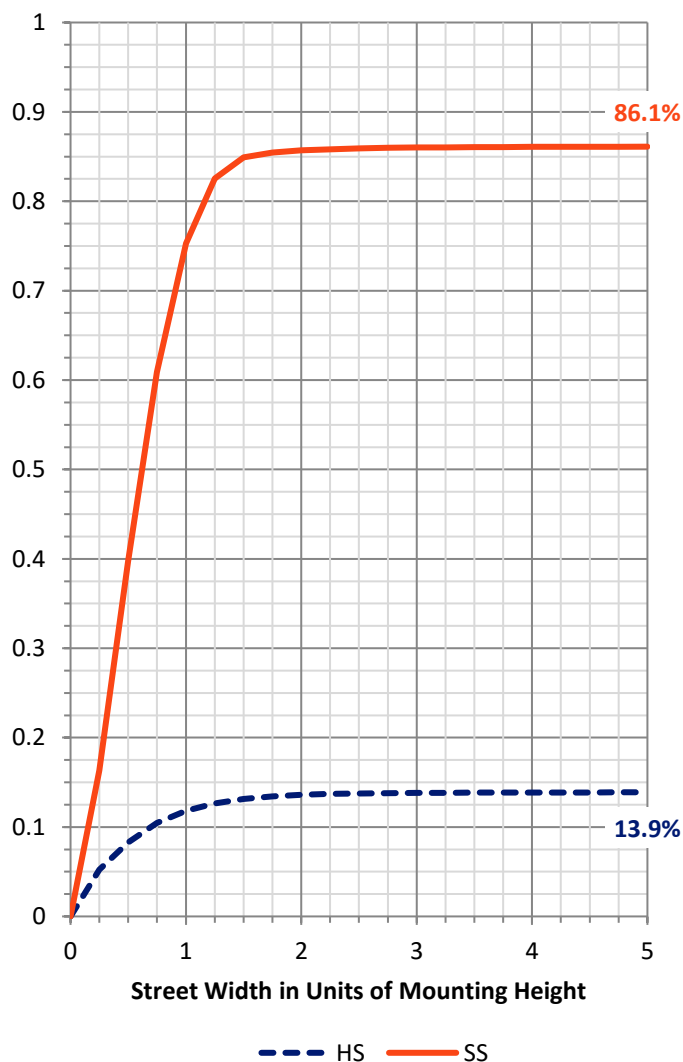
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1738.7	0.0	1738.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10711.3	0.0	10711.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	12450.0	0.0	12450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.3
10°-20°	725.4	5.8
20°-30°	1521.7	12.2
30°-40°	2622.9	21.1
40°-50°	3833.4	30.8
50°-60°	2985.6	24.0
60°-70°	505.8	4.1
70°-80°	69.5	0.6
80°-90°	18.0	0.1
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°	12450.0	100.0
0°-180°	12450.0	100.0

Coefficient of Utilization



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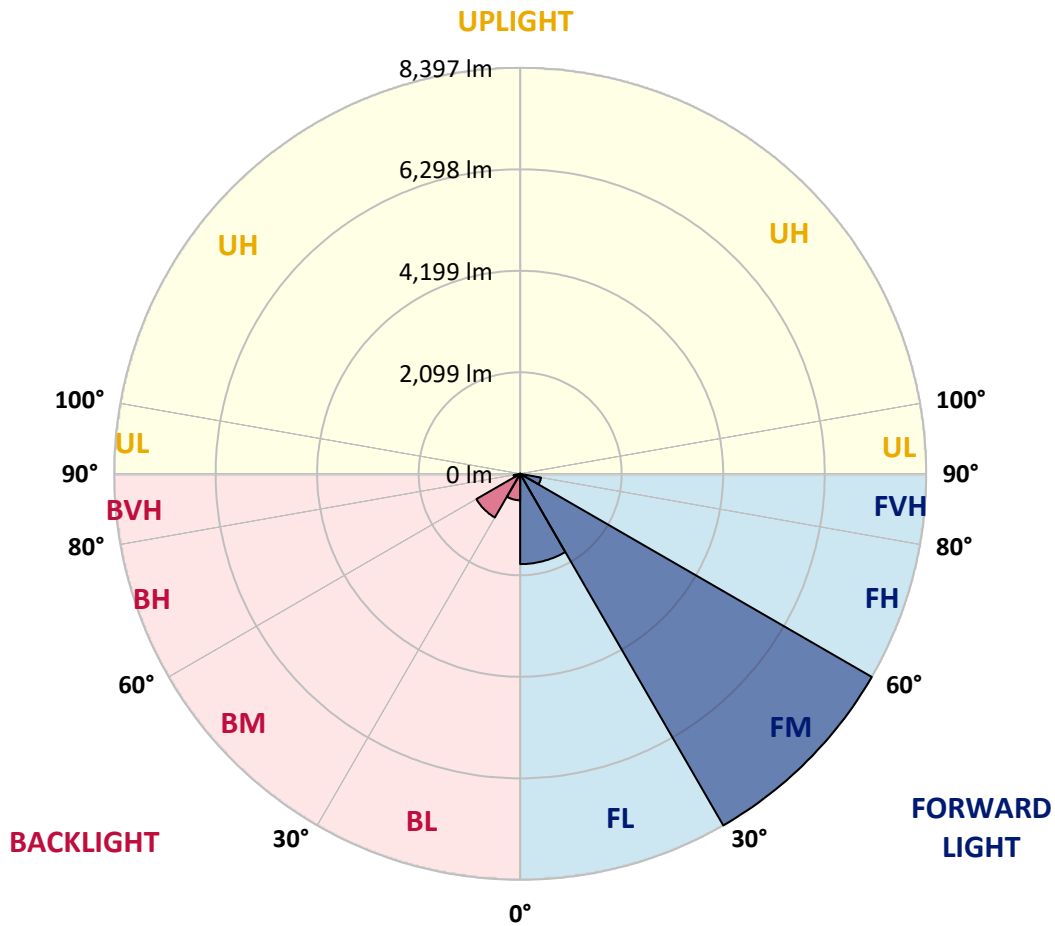
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.6	15.0			
FM (30°-60°)	8397.3	67.4			
FH (60°-80°)	438.0	3.5			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	547.1	4.4	B2/1000		
BM (30°-60°)	1044.6	8.4	B2/2500		
BH (60°-80°)	137.3	1.1	B1/500		G1/500
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1688.7	1676.4	1649.8	1600.7	1580.2	1531.1	1502.5	1447.2	1412.4	1373.5	1330.5
5°	2378.5	2315.1	2276.2	2220.9	2059.2	1958.9	1793.1	1651.9	1586.4	1514.7	1416.5
7.5°	3090.9	3049.9	2996.7	2878.0	2767.5	2558.7	2274.2	1963.0	1830.0	1707.2	1512.7
10°	3680.4	3565.8	3559.6	3471.6	3350.8	3101.1	2759.3	2372.4	2135.0	1954.8	1649.8
12.5°	4091.8	3987.4	4034.5	4024.3	3911.7	3682.5	3287.4	2775.7	2528.0	2247.5	1791.1
15°	4466.4	4423.4	4409.1	4396.8	4351.8	4181.9	3827.8	3266.9	2908.7	2571.0	1950.7
17.5°	4832.8	4722.3	4775.5	4785.8	4781.7	4628.1	4296.5	3733.6	3312.0	2912.8	2118.6
20°	5158.3	5168.5	5096.9	5082.6	5070.3	5064.1	4740.7	4196.2	3807.3	3271.0	2337.6
22.5°	5575.9	5504.2	5567.7	5526.7	5446.9	5397.8	5150.1	4605.6	4237.2	3702.9	2560.7
25°	6069.2	6126.5	5977.1	5960.7	5872.7	5702.8	5479.7	5064.1	4650.7	4104.1	2802.3
27.5°	6677.1	6576.8	6537.9	6447.9	6288.2	6216.6	5954.6	5537.0	5150.1	4525.8	3035.6
30°	7199.1	7172.5	6978.0	6871.6	6732.4	6730.4	6363.9	6177.7	5801.0	5187.0	3357.0
32.5°	7624.9	7508.2	7436.5	7362.9	7250.3	7281.0	6971.9	6873.6	6495.0	5801.0	3735.7
35°	7909.4	7825.5	7782.5	7669.9	7637.1	7774.3	7645.3	7604.4	7293.3	6664.9	4179.9
37.5°	7999.5	8026.1	8017.9	7876.6	7946.2	8316.7	8482.5	8376.1	8212.3	7575.7	4660.9
40°	8079.3	8097.7	8056.8	8222.6	8421.1	8842.8	9442.6	9266.5	9205.1	8498.9	5330.2
42.5°	8124.3	8110.0	8110.0	8396.6	8697.5	9544.9	10369.8	10253.1	10206.1	9481.4	6104.0
45°	7929.9	7790.7	7940.1	8329.0	8934.9	9890.8	11110.8	11272.5	11205.0	10650.3	7008.7
47.5°	7203.2	7289.2	7373.1	7893.0	8646.3	9784.4	11565.2	12115.9	12240.7	11632.8	7602.4
50°	6104.0	6085.6	6259.6	6914.6	7829.6	9325.9	11477.2	12359.4	12586.7	11927.5	7727.2
52.5°	4439.8	4574.9	4763.2	5414.2	6499.0	8138.7	10341.2	11731.0	12034.0	11565.2	7645.3
55°	2585.3	2435.9	2859.6	3410.2	4433.7	6138.8	8742.5	10398.5	10959.3	10906.1	7231.9
57.5°	1035.8	1003.0	1148.3	1547.5	2313.0	3805.3	6357.8	8543.9	9442.6	9989.1	6355.8
60°	454.4	444.2	522.0	630.5	945.7	1754.2	3477.8	5313.9	6251.4	6980.1	4374.3
62.5°	327.5	323.4	362.3	401.2	499.5	763.5	1461.5	2141.1	2669.2	3223.9	1958.9
65°	264.1	274.3	300.9	321.4	368.4	423.7	515.8	595.7	730.8	757.4	431.9
67.5°	214.9	223.1	247.7	270.2	278.4	229.3	237.4	208.8	208.8	186.3	149.4
70°	157.6	159.7	188.3	214.9	171.9	92.1	161.7	161.7	145.3	139.2	126.9
72.5°	116.7	118.7	141.2	133.1	67.5	57.3	118.7	131.0	118.7	112.6	102.3
75°	86.0	88.0	73.7	30.7	28.7	36.8	69.6	90.1	86.0	83.9	77.8
77.5°	16.4	12.3	10.2	14.3	20.5	30.7	45.0	55.3	57.3	61.4	57.3
80°	2.0	2.0	6.1	12.3	22.5	32.8	47.1	53.2	55.3	57.3	53.2
82.5°	0.0	2.0	6.1	12.3	22.5	30.7	40.9	47.1	51.2	53.2	51.2
85°	0.0	2.0	4.1	10.2	18.4	22.5	20.5	14.3	12.3	14.3	10.2
87.5°	0.0	0.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1306.0	1297.8	1269.1	1238.4	1211.8	1224.1	1211.8	1201.6	1205.7	1201.6	1197.5
5°	1377.6	1340.7	1279.3	1252.7	1230.2	1228.2	1222.0	1220.0	1222.0	1222.0	1203.6
7.5°	1445.1	1385.8	1320.3	1291.6	1265.0	1267.1	1252.7	1252.7	1250.7	1240.4	1236.4
10°	1547.5	1467.7	1383.7	1332.6	1299.8	1293.7	1279.3	1265.0	1265.0	1265.0	1244.5
12.5°	1660.1	1559.8	1445.1	1385.8	1346.9	1316.2	1293.7	1289.6	1267.1	1263.0	1252.7
15°	1758.3	1631.4	1486.1	1404.2	1355.1	1314.1	1279.3	1256.8	1246.6	1240.4	1232.3
17.5°	1854.5	1692.8	1508.6	1404.2	1351.0	1303.9	1267.1	1246.6	1222.0	1226.1	1209.7
20°	1983.5	1758.3	1514.7	1377.6	1312.1	1267.1	1217.9	1207.7	1193.4	1181.1	1185.2
22.5°	2108.4	1805.4	1496.3	1344.8	1250.7	1197.5	1172.9	1160.6	1154.5	1144.2	1129.9
25°	2220.9	1856.6	1467.7	1285.5	1185.2	1146.3	1123.8	1121.7	1107.4	1107.4	1080.8
27.5°	2335.6	1875.0	1418.5	1215.9	1127.9	1105.3	1095.1	1091.0	1084.9	1070.6	1052.1
30°	2466.6	1881.1	1346.9	1144.2	1076.7	1052.1	1066.5	1076.7	1050.1	1023.5	1031.7
32.5°	2575.1	1866.8	1260.9	1076.7	1039.8	1027.6	1056.2	1066.5	1035.8	1007.1	992.8
35°	2706.1	1832.0	1177.0	1023.5	1003.0	1027.6	1052.1	1052.1	990.7	955.9	947.7
37.5°	2904.6	1793.1	1099.2	978.4	964.1	1015.3	1048.0	1025.5	929.3	886.3	876.1
40°	3117.5	1768.6	1023.5	933.4	943.6	994.8	1013.2	943.6	845.4	818.8	810.6
42.5°	3426.6	1719.4	955.9	894.5	925.2	966.2	966.2	841.3	804.4	790.1	788.1
45°	3811.4	1684.6	896.6	861.8	898.6	908.8	876.1	788.1	761.5	757.4	759.4
47.5°	3999.7	1617.1	835.2	822.9	849.5	851.5	765.6	745.1	722.6	716.4	712.3
50°	3971.1	1496.3	755.3	771.7	808.5	788.1	698.0	702.1	681.6	679.6	669.4
52.5°	3770.5	1306.0	675.5	714.4	755.3	696.0	642.7	638.6	638.6	612.0	601.8
55°	3342.7	1052.1	579.3	628.4	677.5	585.4	571.1	567.0	556.8	532.2	526.1
57.5°	2646.7	771.7	436.0	489.2	575.2	497.4	495.4	476.9	450.3	431.9	431.9
60°	1574.1	444.2	274.3	298.9	380.7	403.2	448.3	440.1	395.1	366.4	358.2
62.5°	718.5	229.3	174.0	178.1	204.7	262.0	352.1	407.3	343.9	294.8	290.7
65°	241.5	169.9	143.3	137.1	141.2	157.6	210.8	288.6	274.3	227.2	219.0
67.5°	147.4	151.5	135.1	124.9	124.9	122.8	120.8	131.0	161.7	157.6	159.7
70°	126.9	139.2	124.9	112.6	108.5	102.3	86.0	71.6	61.4	71.6	75.7
72.5°	102.3	110.5	106.4	96.2	86.0	77.8	61.4	47.1	34.8	30.7	30.7
75°	75.7	81.9	86.0	73.7	65.5	55.3	45.0	30.7	18.4	12.3	12.3
77.5°	55.3	61.4	63.5	57.3	49.1	38.9	28.7	20.5	10.2	4.1	4.1
80°	47.1	55.3	61.4	57.3	51.2	36.8	26.6	14.3	8.2	2.0	2.0
82.5°	45.0	55.3	61.4	55.3	49.1	34.8	26.6	16.4	6.1	2.0	2.0
85°	10.2	14.3	18.4	22.5	26.6	26.6	20.5	12.3	6.1	2.0	2.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	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)