

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: P526604

Luminaire Tested: **GALN-SA1C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6251 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

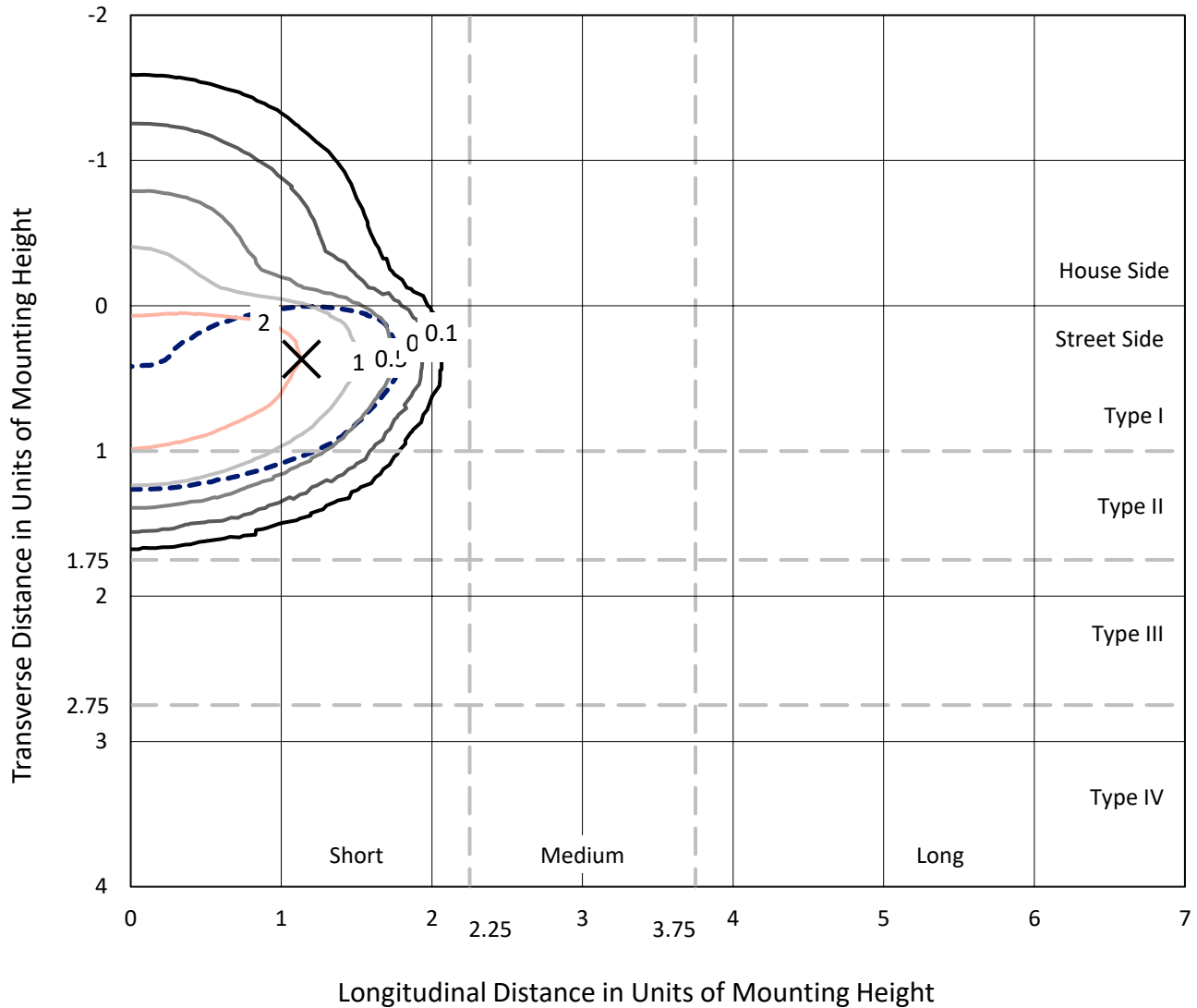
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

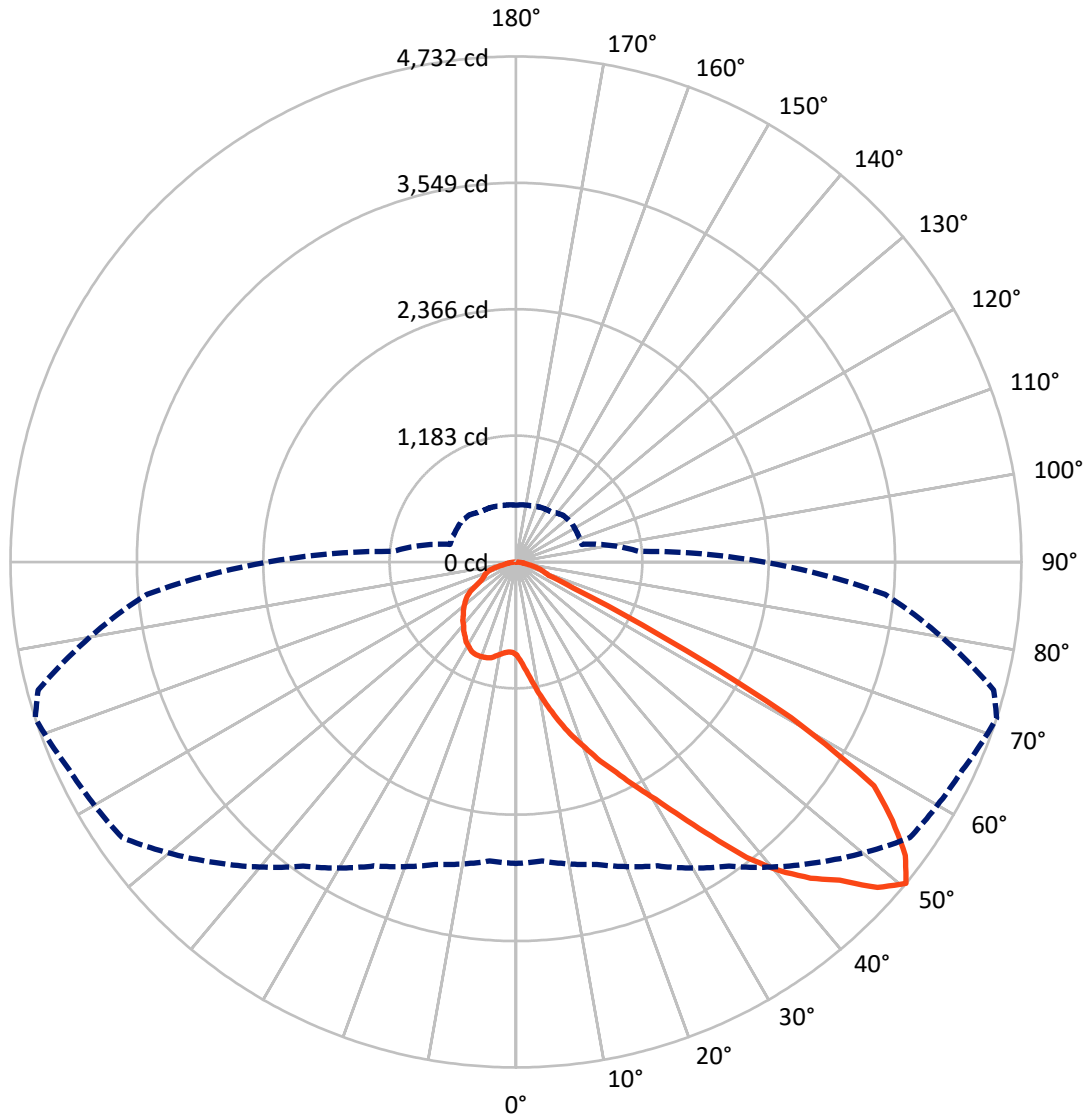
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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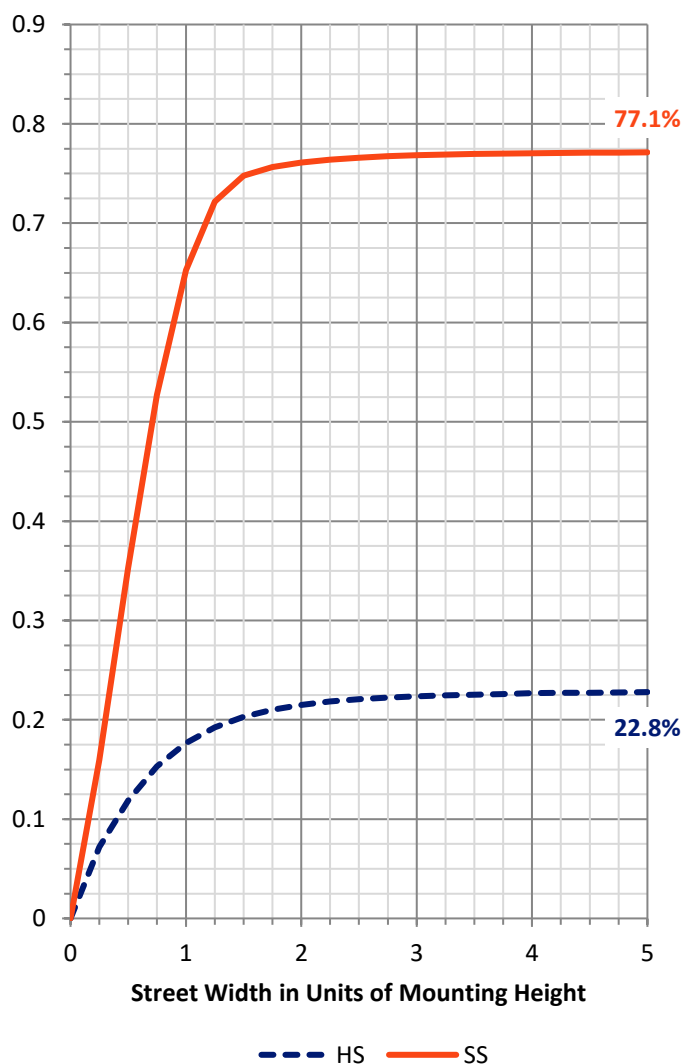
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1432.1	0.0	1432.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4818.9	0.0	4818.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	6251.0	0.0	6251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.6
10°-20°	382.6	6.1
20°-30°	741.9	11.9
30°-40°	1229.1	19.7
40°-50°	1719.8	27.5
50°-60°	1450.9	23.2
60°-70°	442.2	7.1
70°-80°	155.1	2.5
80°-90°	27.0	0.4
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°	6251.0	100.0
0°-180°	6251.0	100.0

Coefficient of Utilization

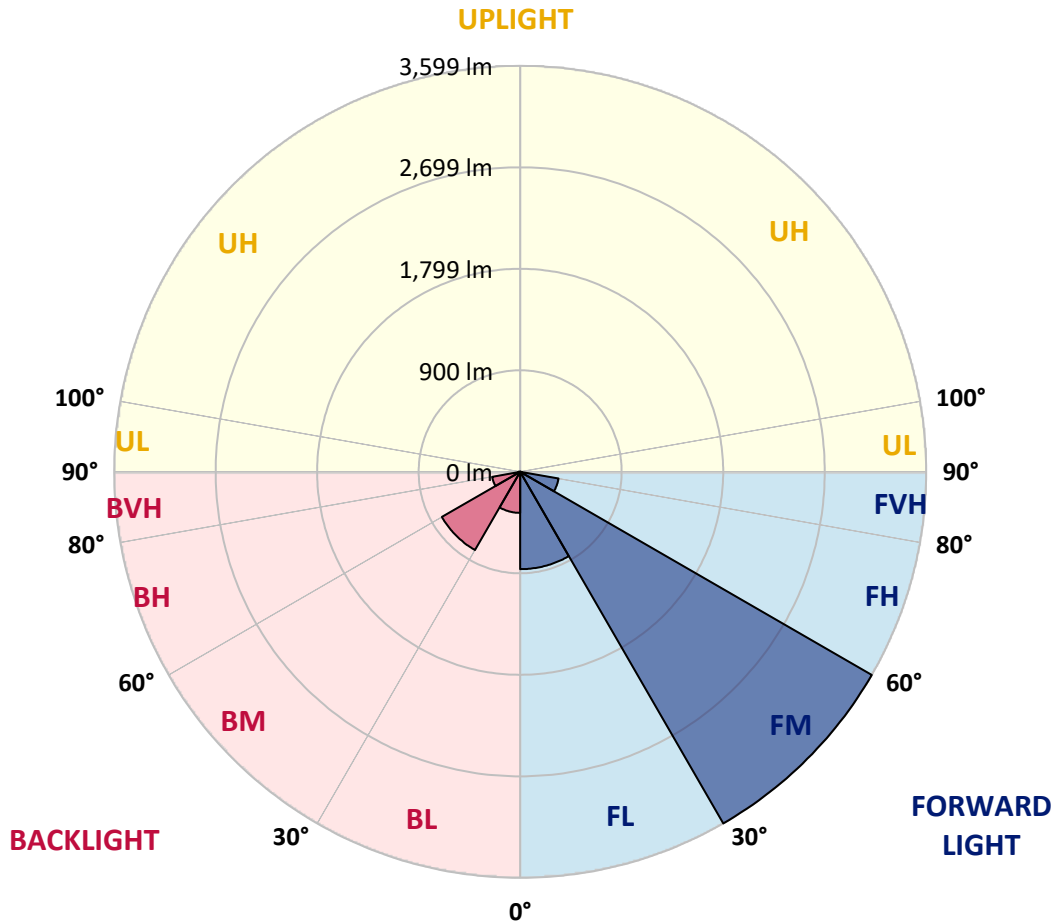


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.9	13.8			
FM (30°-60°)	3598.9	57.6			
FH (60°-80°)	345.0	5.5			G0/660
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	364.1	5.8	B1/500		
BM (30°-60°)	800.9	12.8	B1/1000		
BH (60°-80°)	252.3	4.0	B1/500		G1/500
BVH (80°-90°)	14.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2
2.5°	1119.3	1112.3	1091.4	1084.5	1059.7	1014.8	999.4	953.7	934.4	916.6	895.7
5°	1415.5	1383.0	1380.7	1341.3	1284.0	1250.8	1151.7	1085.2	1024.1	993.2	935.9
7.5°	1604.2	1605.0	1605.0	1572.5	1526.9	1442.6	1353.6	1233.7	1141.7	1096.1	998.6
10°	1783.7	1768.2	1759.7	1756.6	1725.7	1643.7	1548.6	1400.0	1274.0	1220.6	1045.8
12.5°	1910.6	1897.4	1916.7	1906.7	1884.3	1830.9	1741.2	1571.8	1414.0	1342.0	1121.6
15°	1970.9	1980.2	1995.6	2023.5	2013.4	1993.3	1894.3	1748.1	1564.8	1483.6	1188.9
17.5°	2063.7	2038.2	2056.7	2091.6	2119.4	2110.1	2053.7	1875.7	1714.1	1614.3	1279.4
20°	2128.7	2114.0	2123.3	2163.5	2184.4	2237.0	2207.6	2042.8	1857.2	1752.0	1386.1
22.5°	2314.3	2292.7	2262.5	2268.7	2276.4	2313.6	2320.5	2226.1	2023.5	1912.1	1487.4
25°	2543.3	2523.2	2487.6	2451.2	2428.8	2421.8	2445.8	2370.0	2182.8	2067.6	1596.5
27.5°	2795.4	2761.4	2739.0	2663.9	2603.6	2594.3	2582.7	2541.7	2371.6	2247.0	1719.5
30°	3040.6	3013.6	2983.4	2863.5	2800.9	2790.8	2733.6	2745.2	2576.5	2438.1	1858.7
32.5°	3226.3	3228.6	3159.8	3069.3	3010.5	2957.1	2936.2	2969.5	2839.5	2728.2	2014.2
35°	3376.3	3383.3	3317.6	3235.6	3172.1	3209.3	3200.0	3215.5	3153.6	3017.4	2195.2
37.5°	3522.5	3487.7	3417.3	3377.9	3344.6	3405.7	3484.6	3497.8	3509.4	3349.3	2405.6
40°	3546.5	3549.6	3508.6	3536.5	3494.7	3586.7	3770.1	3753.0	3800.2	3660.2	2633.8
42.5°	3512.5	3519.4	3535.7	3575.1	3675.7	3786.3	4058.6	3989.0	4046.2	3921.7	2855.8
45°	3456.8	3428.2	3448.3	3598.3	3772.4	4018.4	4322.3	4268.2	4249.6	4145.2	3120.3
47.5°	3190.7	3220.1	3282.8	3467.6	3729.1	4058.6	4509.5	4497.2	4552.8	4479.4	3360.9
50°	2821.7	2810.1	2930.8	3138.9	3476.1	3979.7	4499.5	4611.6	4731.5	4629.4	3468.4
52.5°	2113.2	2175.1	2278.7	2537.1	3018.2	3549.6	4279.8	4467.0	4564.4	4542.8	3381.8
55°	1335.8	1354.4	1417.1	1724.1	2157.3	2848.8	3668.7	4102.7	4276.7	4357.9	3302.1
57.5°	649.0	614.2	690.7	937.5	1246.1	1916.0	2829.5	3573.6	3951.8	4098.8	3128.8
60°	338.8	351.9	382.1	470.3	644.3	994.7	1763.6	2381.6	2959.4	3185.3	2371.6
62.5°	280.8	285.4	305.5	349.6	428.5	572.4	900.4	1161.0	1509.1	1712.5	1349.0
65°	238.2	240.6	262.2	291.6	341.9	403.0	463.3	485.0	587.1	602.6	479.6
67.5°	198.8	201.1	224.3	252.2	284.6	300.9	316.4	314.8	326.4	321.8	321.0
70°	153.2	155.5	179.5	208.8	225.1	215.8	263.8	274.6	279.2	283.1	289.3
72.5°	110.6	115.3	133.8	154.7	146.2	167.9	217.4	233.6	239.8	242.1	249.8
75°	80.4	82.0	86.6	80.4	92.8	116.8	153.2	173.3	181.0	183.3	194.9
77.5°	35.6	36.4	37.1	46.4	59.6	72.7	91.3	107.5	118.3	121.4	124.5
80°	18.6	19.3	24.0	31.7	42.5	53.4	66.5	75.8	82.8	83.5	86.6
82.5°	11.6	12.4	17.0	22.4	30.2	39.4	48.7	56.5	61.9	62.7	63.4
85°	5.4	7.0	10.1	13.9	20.1	25.5	26.3	22.4	24.0	24.8	23.2
87.5°	1.5	2.3	3.1	2.3	3.1	3.1	3.9	4.6	4.6	4.6	5.4
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°	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2	870.2
2.5°	884.1	877.2	850.1	840.0	813.7	818.4	804.4	803.7	800.6	799.8	799.0
5°	905.8	884.1	851.6	826.9	812.2	810.6	800.6	800.6	803.7	806.0	800.6
7.5°	941.4	916.6	861.7	838.5	825.3	823.0	816.0	810.6	817.6	815.3	809.1
10°	982.4	939.0	881.0	860.9	839.3	833.8	833.8	836.2	824.6	828.4	822.2
12.5°	1028.0	970.0	905.8	882.6	857.0	853.9	852.4	835.4	841.6	838.5	823.0
15°	1086.0	1005.6	937.5	898.0	876.4	862.5	842.3	839.3	835.4	827.6	820.7
17.5°	1148.7	1044.2	952.2	902.7	870.2	860.1	844.7	828.4	816.8	818.4	813.0
20°	1202.0	1079.8	957.6	907.3	865.6	846.2	822.2	812.2	799.8	799.0	798.3
22.5°	1265.5	1127.8	965.3	894.9	851.6	831.5	815.3	797.5	789.0	778.1	783.6
25°	1341.3	1146.3	966.9	888.0	841.6	806.0	797.5	778.1	775.1	759.6	762.7
27.5°	1396.2	1156.4	954.5	866.3	818.4	791.3	775.8	761.9	756.5	744.9	741.8
30°	1469.7	1171.9	928.2	839.3	795.2	765.0	755.7	752.6	737.1	724.8	723.2
32.5°	1553.2	1181.9	911.2	811.4	771.2	748.0	752.6	737.9	718.6	707.8	704.7
35°	1619.7	1185.8	868.6	779.7	754.9	740.2	734.8	731.7	703.9	693.8	686.1
37.5°	1721.0	1177.3	833.1	757.3	737.1	731.7	727.1	706.2	674.5	659.8	649.0
40°	1839.4	1175.0	787.4	725.5	720.1	726.3	712.4	679.9	635.8	619.6	611.8
42.5°	1953.1	1191.2	758.8	708.5	701.6	703.9	684.6	635.8	614.2	604.9	592.5
45°	2143.4	1225.2	711.6	682.2	679.1	677.6	654.4	603.3	591.0	579.4	577.0
47.5°	2315.1	1202.8	681.5	655.2	658.3	649.7	600.2	584.0	570.1	558.5	554.6
50°	2325.2	1149.4	638.9	634.3	635.0	620.4	573.2	562.3	544.5	536.8	531.4
52.5°	2272.6	1062.0	599.5	601.0	603.3	579.4	539.9	532.2	517.5	506.6	503.6
55°	2124.8	925.9	560.8	567.0	573.2	527.5	515.2	495.8	484.2	468.7	469.5
57.5°	1871.9	745.7	506.6	516.7	529.9	479.6	470.3	446.3	429.3	416.9	415.4
60°	1254.6	530.6	425.4	429.3	458.7	438.6	437.8	413.8	390.6	379.8	373.6
62.5°	740.2	405.3	367.4	363.5	362.8	374.4	393.7	385.2	355.0	334.2	340.3
65°	387.5	350.4	341.9	328.7	321.0	317.9	332.6	336.5	316.4	293.9	292.4
67.5°	325.6	325.6	318.7	314.0	303.2	290.1	280.8	268.4	265.3	259.1	251.4
70°	296.3	304.0	301.7	290.8	281.6	266.9	242.9	222.8	203.4	196.5	201.1
72.5°	258.4	266.1	266.1	260.7	248.3	225.9	202.7	179.5	163.2	150.8	149.3
75°	198.8	202.7	211.9	205.8	189.5	175.6	151.6	127.6	112.2	100.6	98.2
77.5°	126.9	133.0	133.0	132.3	120.7	107.5	92.0	75.0	63.4	54.9	52.6
80°	84.3	88.2	91.3	88.2	80.4	70.4	58.8	47.2	38.7	31.7	30.2
82.5°	61.9	66.5	68.8	65.7	58.0	50.3	41.8	33.3	24.8	19.3	17.8
85°	24.0	24.8	27.8	33.3	32.5	31.7	25.5	18.6	13.9	10.1	9.3
87.5°	6.2	5.4	6.2	6.2	5.4	4.6	4.6	4.6	4.6	2.3	3.1
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)