

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: P527284

Luminaire Tested: **GALN-SA2B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527284
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-SA2B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 9305 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

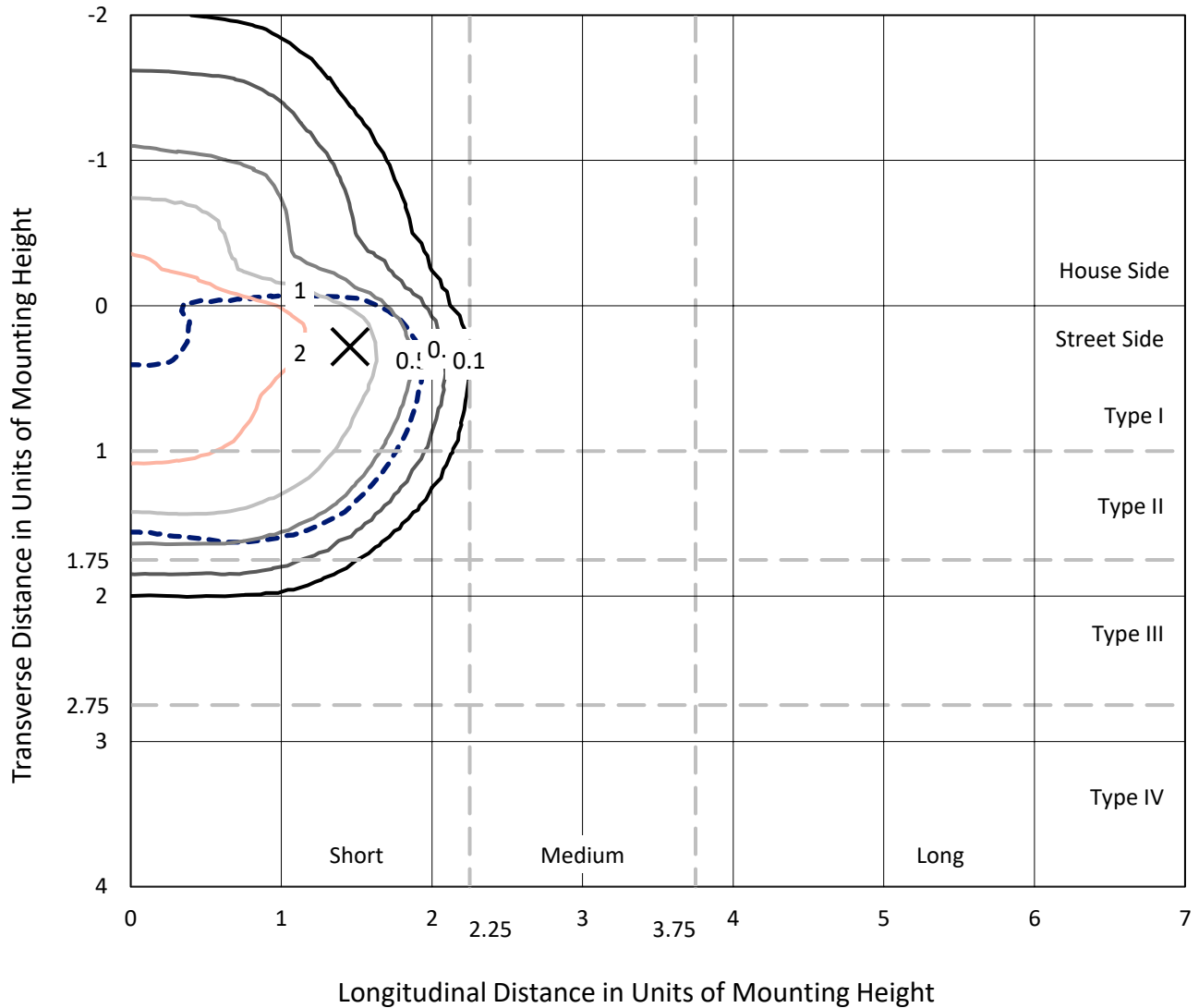
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

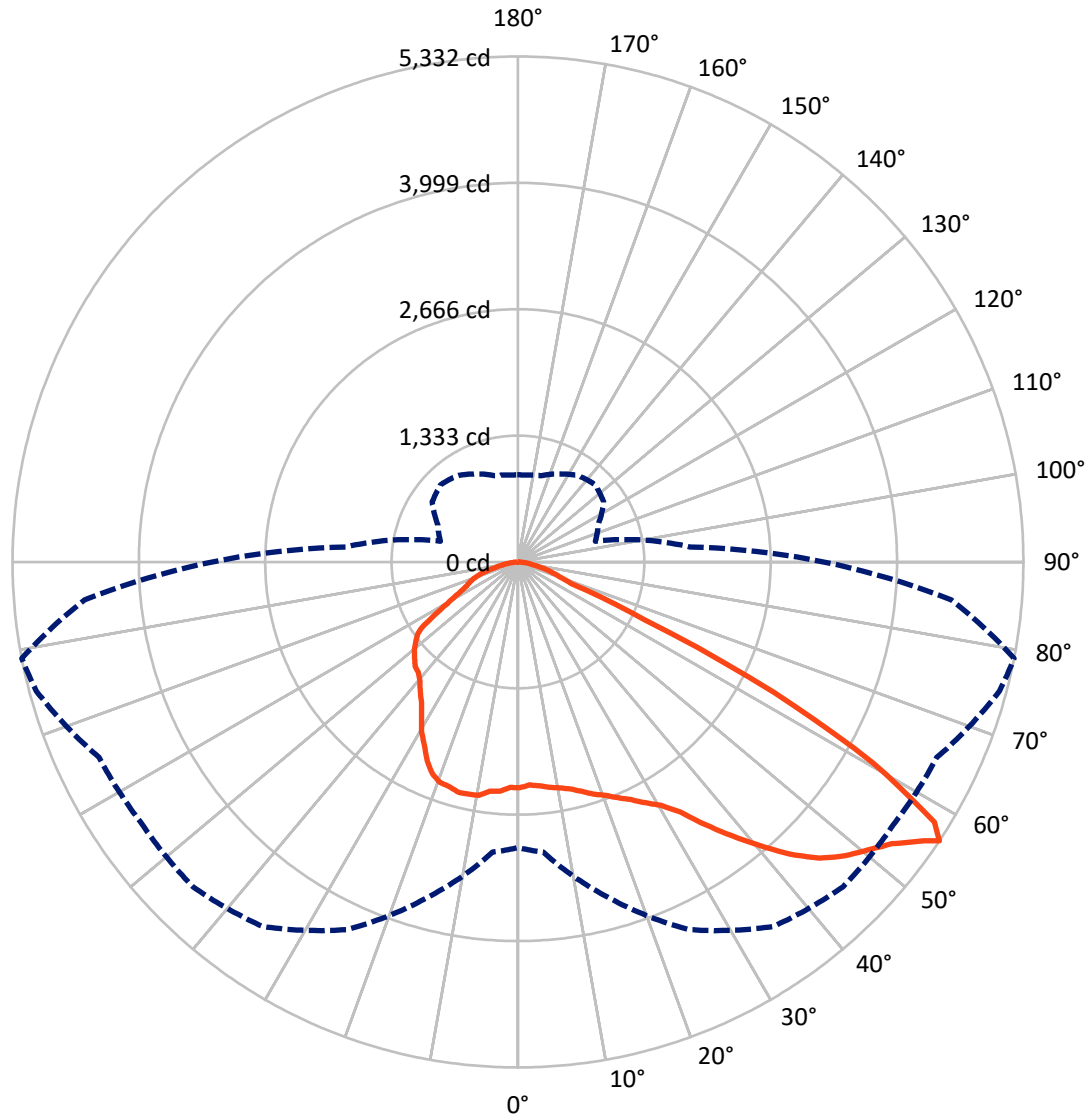
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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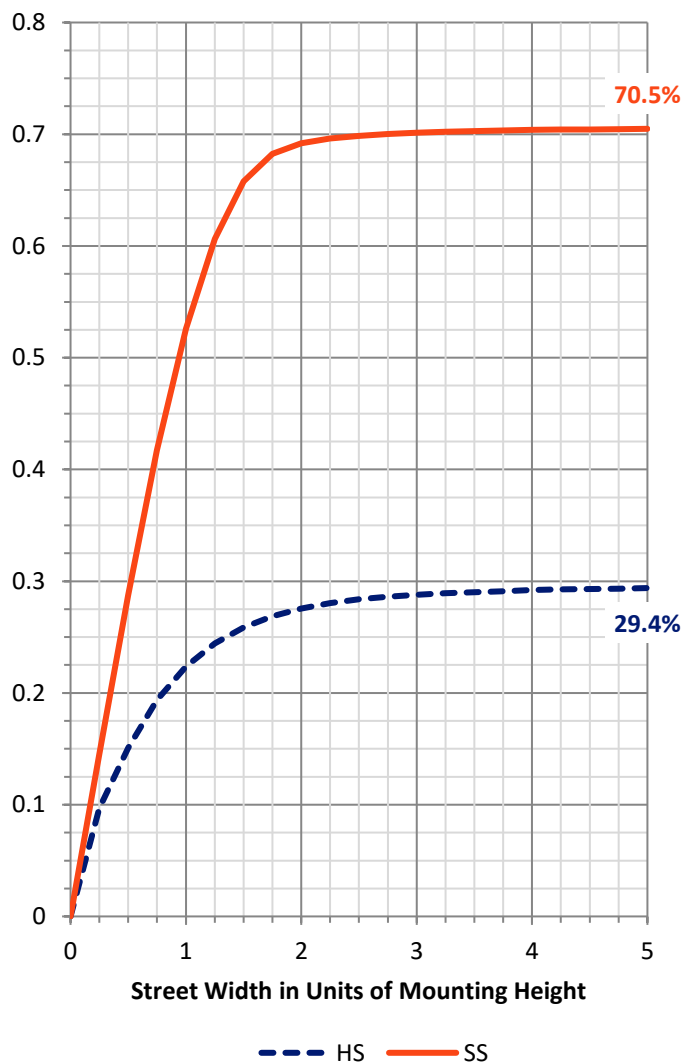
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2748.0	0.0	2748.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6557.0	0.0	6557.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	9305.0	0.0	9305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	2.3
10°-20°	592.4	6.4
20°-30°	1013.5	10.9
30°-40°	1553.3	16.7
40°-50°	2099.2	22.6
50°-60°	2411.0	25.9
60°-70°	1099.0	11.8
70°-80°	271.0	2.9
80°-90°	49.2	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°	9305.0	100.0
0°-180°	9305.0	100.0

Coefficient of Utilization

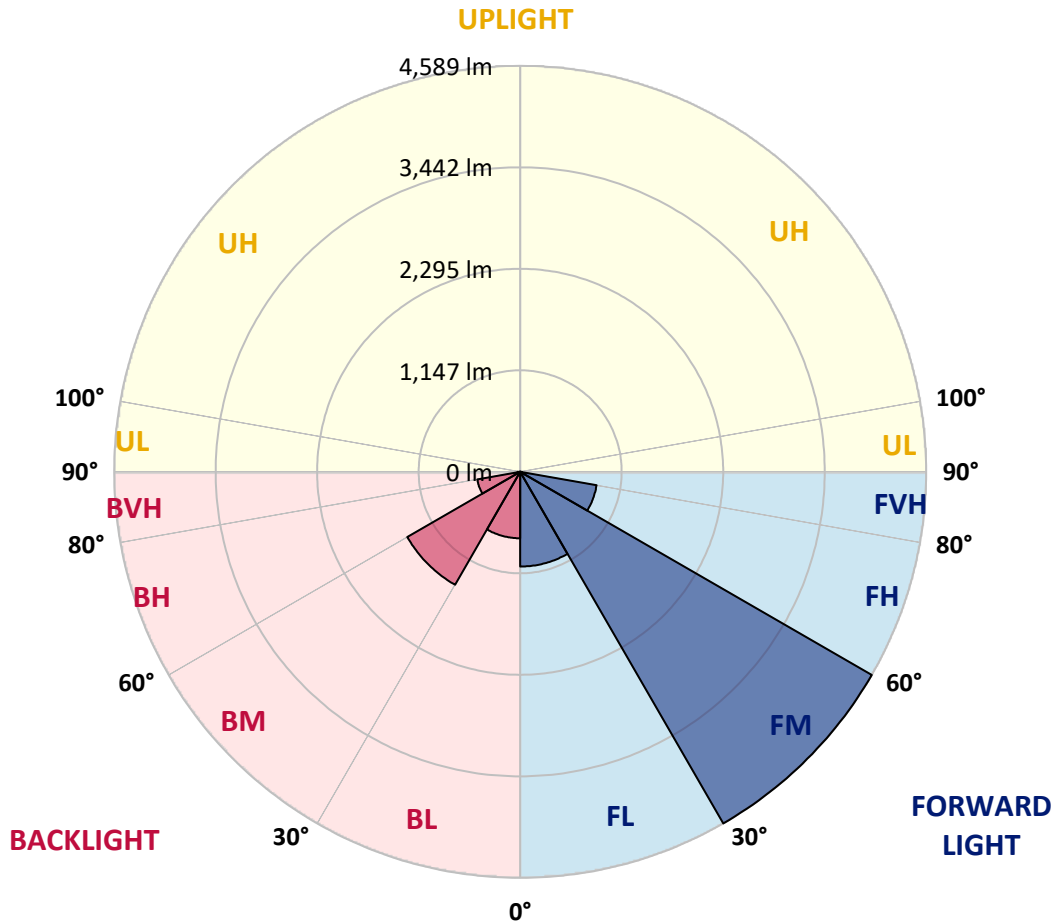


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.6	11.5			
FM (30°-60°)	4589.5	49.3			
FH (60°-80°)	877.2	9.4			G1/1800
FVH (80°-90°)	19.7	0.2			G1/100
BL (0°-30°)	751.7	8.1	B2/1000		
BM (30°-60°)	1474.0	15.8	B2/2500		
BH (60°-80°)	492.7	5.3	B1/500		G1/500
BVH (80°-90°)	29.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2264.9	2259.1	2273.0	2283.4	2296.2	2312.4	2320.5	2325.1	2365.7	2355.3	2386.6
5°	2216.2	2201.1	2211.6	2219.7	2241.7	2261.4	2283.4	2318.2	2355.3	2371.5	2409.8
7.5°	2173.3	2165.2	2162.9	2168.7	2198.8	2224.3	2262.6	2313.6	2373.8	2400.5	2422.5
10°	2102.6	2091.0	2108.4	2146.6	2154.8	2208.1	2252.1	2325.1	2377.3	2423.7	2488.6
12.5°	2071.3	2059.7	2063.2	2085.2	2142.0	2193.0	2245.2	2327.5	2437.6	2456.1	2543.1
15°	2121.1	2109.6	2113.0	2107.2	2161.7	2188.4	2270.7	2373.8	2479.3	2510.6	2603.3
17.5°	2234.7	2235.9	2220.8	2208.1	2195.3	2252.1	2308.9	2401.6	2495.5	2574.3	2643.9
20°	2451.5	2413.2	2383.1	2311.2	2291.5	2315.9	2387.7	2477.0	2561.6	2626.5	2705.3
22.5°	2618.4	2621.9	2579.0	2460.8	2417.9	2428.3	2489.7	2562.8	2655.5	2701.9	2792.3
25°	2860.6	2836.3	2789.9	2696.1	2599.8	2608.0	2653.2	2719.2	2744.7	2777.2	2875.7
27.5°	3082.0	3089.0	2997.4	2909.3	2789.9	2766.8	2847.9	2859.5	2816.6	2878.0	2911.6
30°	3306.9	3301.1	3240.8	3137.7	3020.6	3025.2	3061.2	3004.4	2945.3	2978.9	3002.1
32.5°	3539.9	3473.8	3471.5	3378.8	3289.5	3246.6	3202.6	3230.4	3138.8	3145.8	3123.8
35°	3726.5	3735.8	3682.4	3616.4	3572.3	3497.0	3376.4	3426.3	3408.9	3400.8	3305.7
37.5°	3862.1	3826.2	3852.8	3830.8	3789.1	3695.2	3570.0	3617.5	3625.6	3665.1	3554.9
40°	3973.4	3958.3	4029.0	4040.6	4011.6	3808.8	3583.9	3725.3	3847.0	3932.8	3801.8
42.5°	4026.7	4059.2	4133.3	4222.6	4157.7	3940.9	3655.8	3807.6	4078.9	4214.5	4036.0
45°	4098.6	4056.8	4166.9	4330.4	4331.5	4052.2	3725.3	3918.9	4259.7	4456.7	4195.9
47.5°	4025.5	4046.4	4160.0	4367.5	4420.8	4169.3	3913.1	4076.5	4459.0	4634.1	4344.3
50°	3862.1	3903.8	4111.3	4326.9	4488.0	4293.3	4128.7	4246.9	4643.3	4776.6	4368.6
52.5°	3691.7	3714.9	4039.4	4358.2	4518.2	4453.2	4417.3	4482.2	4868.2	4937.7	4398.8
55°	3228.1	3338.2	3801.8	4344.3	4665.4	4741.9	4714.0	4809.1	5123.2	5192.7	4563.4
56°	3013.6	3071.6	3659.3	4279.4	4694.3	4847.3	4833.4	4876.3	5258.8	5331.8	4588.9
57.5°	2617.2	2621.9	3120.3	3991.9	4585.4	4878.6	4864.7	4898.3	5232.2	5182.3	4365.2
60°	1637.8	1709.7	2123.5	3070.4	3899.2	4526.3	4605.1	4335.0	4411.5	4306.0	3396.1
62.5°	848.5	838.0	1112.7	1795.4	2588.3	3240.8	3313.9	3301.1	3182.9	3028.7	2218.5
65°	423.1	425.4	581.9	889.0	1326.0	1696.9	1900.9	1922.9	1608.8	1480.2	1052.5
67.5°	307.2	318.8	418.4	543.6	624.8	698.9	856.6	840.3	636.3	605.0	561.0
70°	238.8	249.2	339.6	415.0	376.7	376.7	410.3	424.2	453.2	466.0	481.0
72.5°	173.9	182.0	259.6	286.3	246.9	265.4	307.2	339.6	369.8	374.4	391.8
75°	119.4	126.3	170.4	157.6	148.4	183.1	224.9	255.0	277.0	288.6	299.0
77.5°	77.7	80.0	97.4	82.3	95.0	118.2	146.0	171.5	193.6	202.8	205.2
80°	34.8	38.3	41.7	52.2	66.1	84.6	104.3	125.2	139.1	142.6	149.5
82.5°	19.7	19.7	25.5	37.1	48.7	61.4	75.3	90.4	106.6	110.1	109.0
85°	10.4	10.4	15.1	22.0	30.1	35.9	34.8	35.9	38.3	44.0	42.9
87.5°	3.5	3.5	4.6	4.6	5.8	7.0	5.8	8.1	10.4	10.4	10.4
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°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2377.3	2387.7	2373.8	2404.0	2404.0	2398.2	2369.2	2378.5	2385.4	2385.4	2391.2
5°	2422.5	2419.0	2428.3	2392.4	2370.3	2362.2	2314.7	2291.5	2271.8	2270.7	2253.3
7.5°	2448.0	2438.7	2435.3	2408.6	2311.2	2252.1	2150.1	2091.0	2078.3	2033.1	2050.4
10°	2488.6	2506.0	2488.6	2343.7	2208.1	2072.5	1972.8	1881.2	1845.3	1816.3	1798.9
12.5°	2572.0	2563.9	2463.1	2267.2	2077.1	1916.0	1767.6	1671.4	1635.5	1610.0	1607.7
15°	2642.7	2602.2	2448.0	2146.6	1873.1	1701.6	1579.8	1511.5	1495.2	1497.6	1508.0
17.5°	2667.1	2639.3	2369.2	2021.5	1721.3	1519.6	1462.8	1452.3	1467.4	1484.8	1489.4
20°	2705.3	2661.3	2336.7	1851.1	1533.5	1406.0	1402.5	1439.6	1467.4	1492.9	1496.4
22.5°	2785.3	2674.0	2231.3	1690.0	1404.8	1372.4	1406.0	1437.3	1480.2	1501.0	1482.5
25°	2808.5	2646.2	2082.9	1496.4	1323.7	1351.5	1387.4	1430.3	1460.5	1472.1	1480.2
27.5°	2828.2	2603.3	1882.4	1367.7	1298.2	1350.3	1387.4	1423.4	1439.6	1450.0	1459.3
30°	2883.8	2590.6	1708.5	1282.0	1282.0	1327.2	1374.7	1384.0	1406.0	1418.7	1435.0
32.5°	2911.6	2502.5	1530.0	1227.5	1265.7	1338.8	1342.2	1359.6	1360.8	1371.2	1353.8
35°	2984.7	2439.9	1364.3	1188.1	1272.7	1327.2	1344.6	1334.1	1277.3	1249.5	1255.3
37.5°	3038.0	2408.6	1244.9	1183.4	1273.8	1339.9	1349.2	1270.4	1211.3	1164.9	1176.5
40°	3181.7	2330.9	1154.5	1175.3	1284.3	1353.8	1328.3	1242.5	1135.9	1088.4	1080.3
42.5°	3291.8	2275.3	1097.7	1166.0	1292.4	1373.5	1317.9	1186.9	1078.0	1033.9	1045.5
45°	3419.3	2262.6	1067.5	1168.4	1306.3	1384.0	1305.1	1144.0	1028.1	1010.7	1007.3
47.5°	3464.5	2171.0	1035.1	1148.7	1302.8	1380.5	1262.3	1111.6	1009.6	1011.9	1021.2
50°	3389.2	2077.1	1010.7	1108.1	1279.6	1349.2	1195.0	1068.7	999.1	1028.1	1044.3
52.5°	3293.0	1980.9	960.9	1053.6	1232.1	1300.5	1163.7	1066.4	988.7	979.4	982.9
55°	3322.0	1902.1	891.3	979.4	1155.6	1210.1	1129.0	1044.3	963.2	928.4	940.0
56°	3228.1	1820.9	846.1	933.1	1103.5	1152.1	1111.6	1024.6	942.3	919.2	919.2
57.5°	2962.6	1548.6	787.0	858.9	993.3	1051.3	1078.0	1013.0	919.2	878.6	879.8
60°	2184.9	1101.1	705.9	756.9	823.0	869.3	993.3	980.6	861.2	833.4	823.0
62.5°	1346.9	804.4	647.9	667.6	701.3	739.5	867.0	887.9	799.8	769.6	762.7
65°	754.6	615.5	603.9	612.0	628.2	647.9	719.8	766.2	705.9	659.5	657.2
67.5°	551.7	550.6	559.8	566.8	573.8	573.8	591.1	609.7	601.6	564.5	561.0
70°	490.3	493.8	500.7	501.9	504.2	496.1	482.2	476.4	485.7	462.5	457.8
72.5°	404.5	416.1	424.2	425.4	412.6	402.2	383.7	364.0	357.0	352.4	351.2
75°	310.6	318.8	322.2	321.1	316.4	301.4	279.3	259.6	246.9	233.0	239.9
77.5°	209.8	221.4	227.2	227.2	220.2	197.0	186.6	171.5	158.8	143.7	146.0
80°	147.2	155.3	164.6	163.4	151.8	140.3	125.2	111.3	100.8	89.3	88.1
82.5°	110.1	114.8	119.4	117.1	109.0	97.4	86.9	74.2	62.6	54.5	54.5
85°	39.4	42.9	52.2	54.5	59.1	59.1	49.8	41.7	33.6	27.8	27.8
87.5°	11.6	11.6	12.8	12.8	11.6	12.8	10.4	11.6	12.8	8.1	8.1
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)