

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: P527225

Luminaire Tested: **GALN-SA2B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5645 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

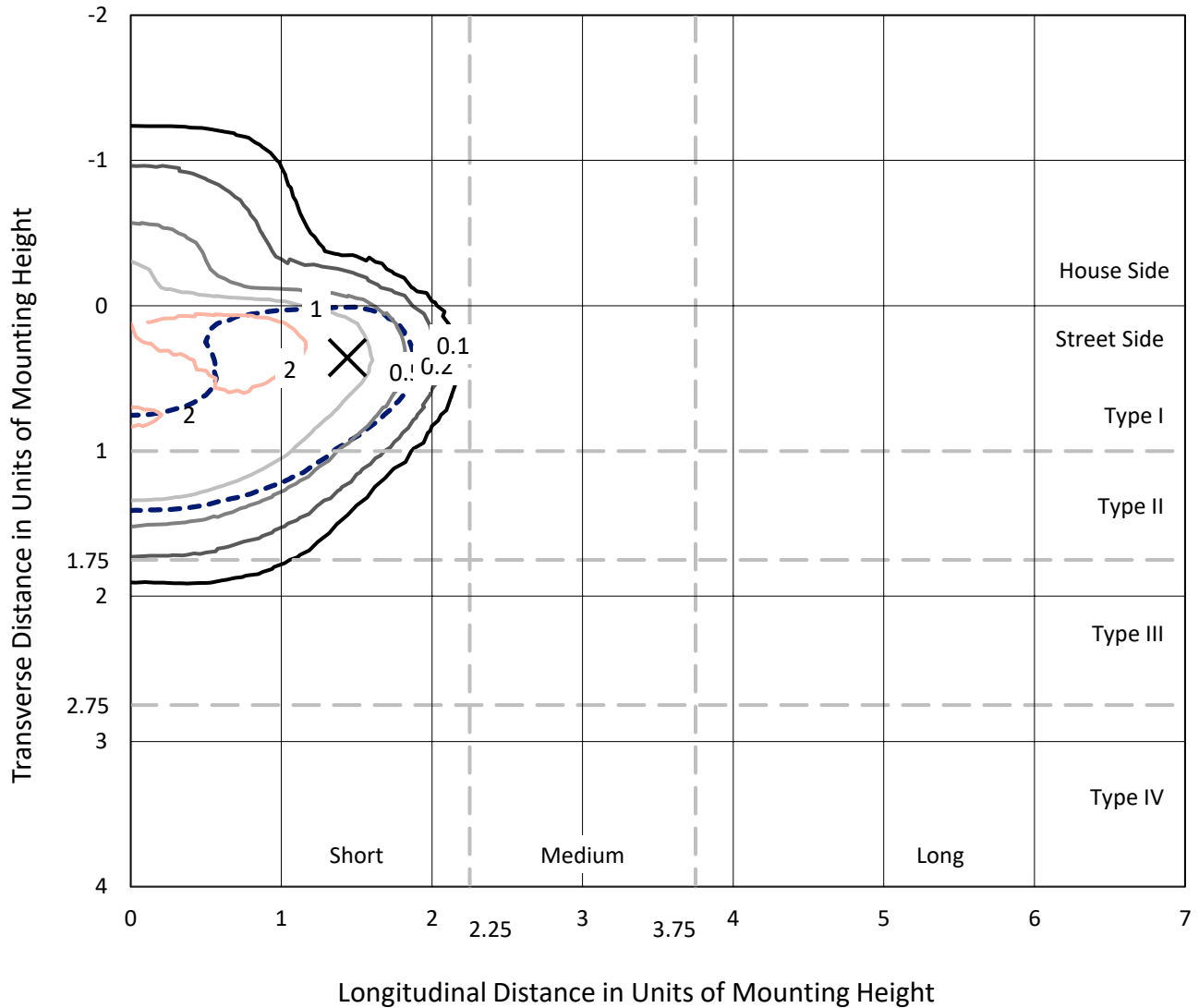
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

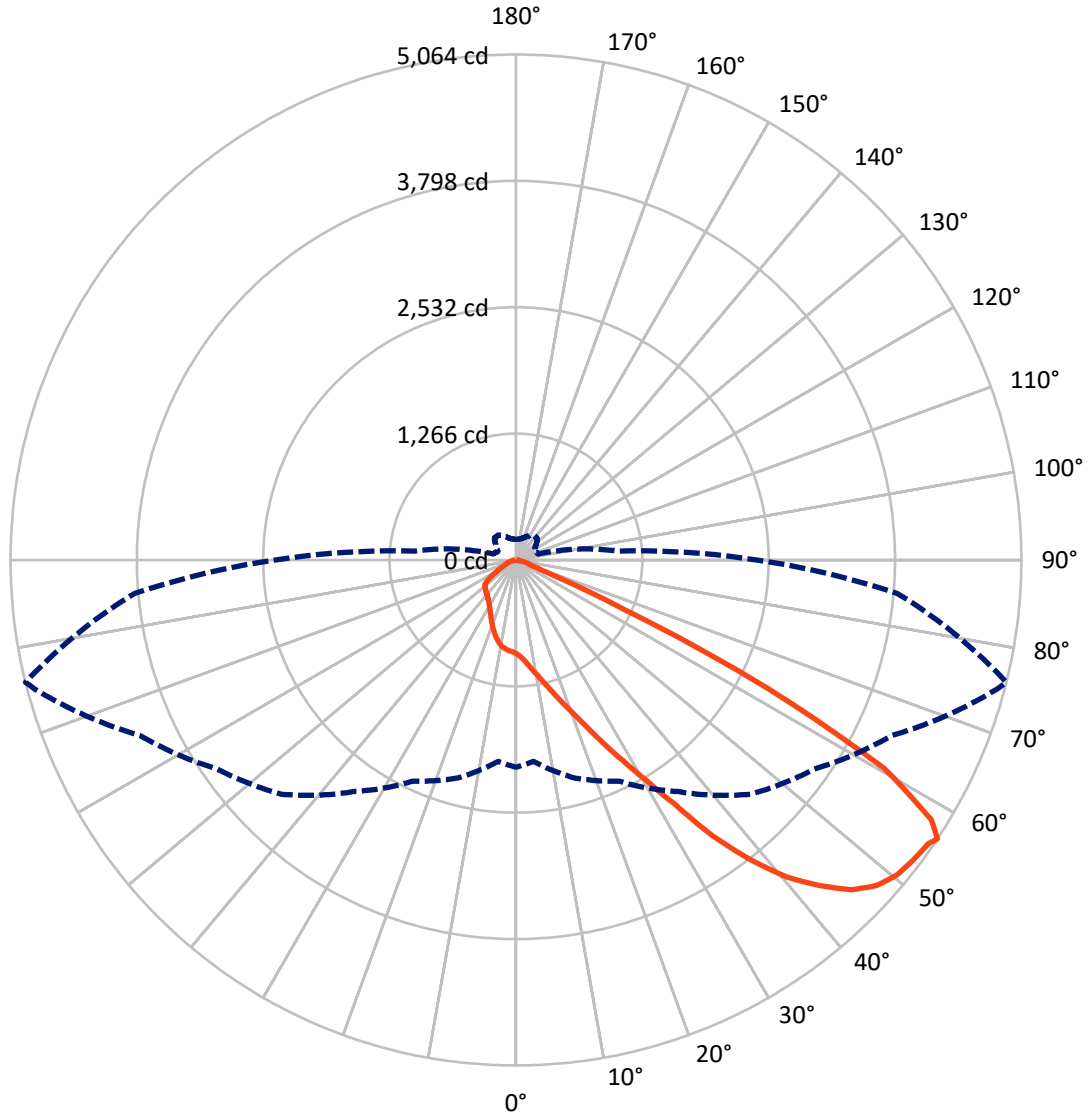
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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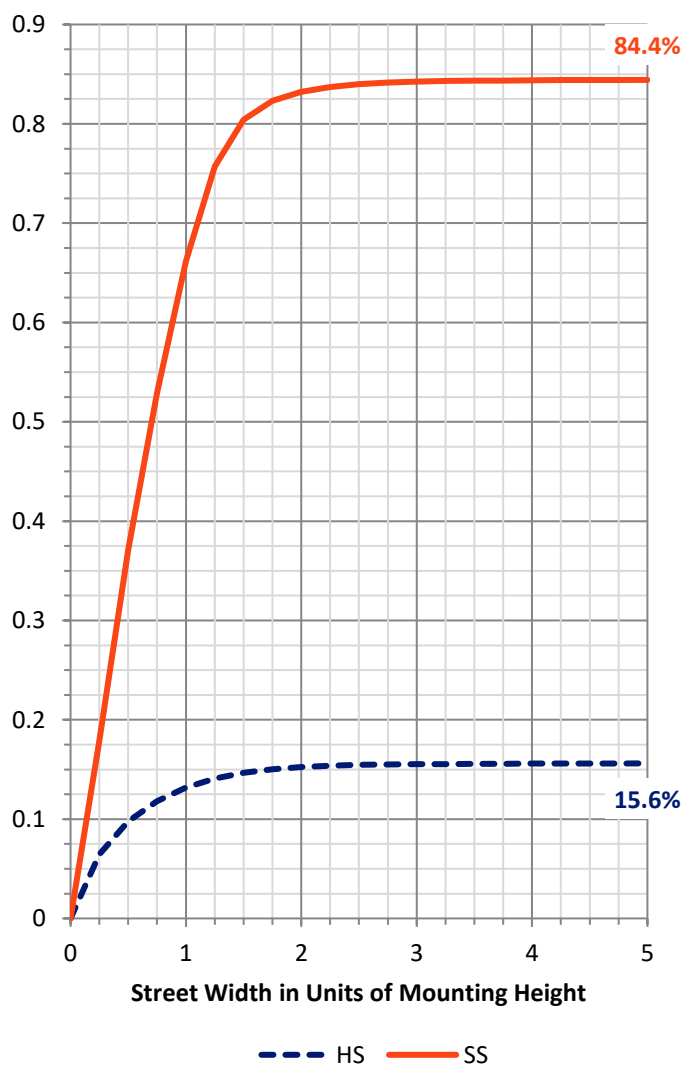
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.8	0.0	886.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4758.2	0.0	4758.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	5645.0	0.0	5645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.7
10°-20°	304.1	5.4
20°-30°	551.4	9.8
30°-40°	950.9	16.8
40°-50°	1544.8	27.4
50°-60°	1628.2	28.8
60°-70°	497.5	8.8
70°-80°	63.8	1.1
80°-90°	9.7	0.2
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°	5645.0	100.0
0°-180°	5645.0	100.0

Coefficient of Utilization

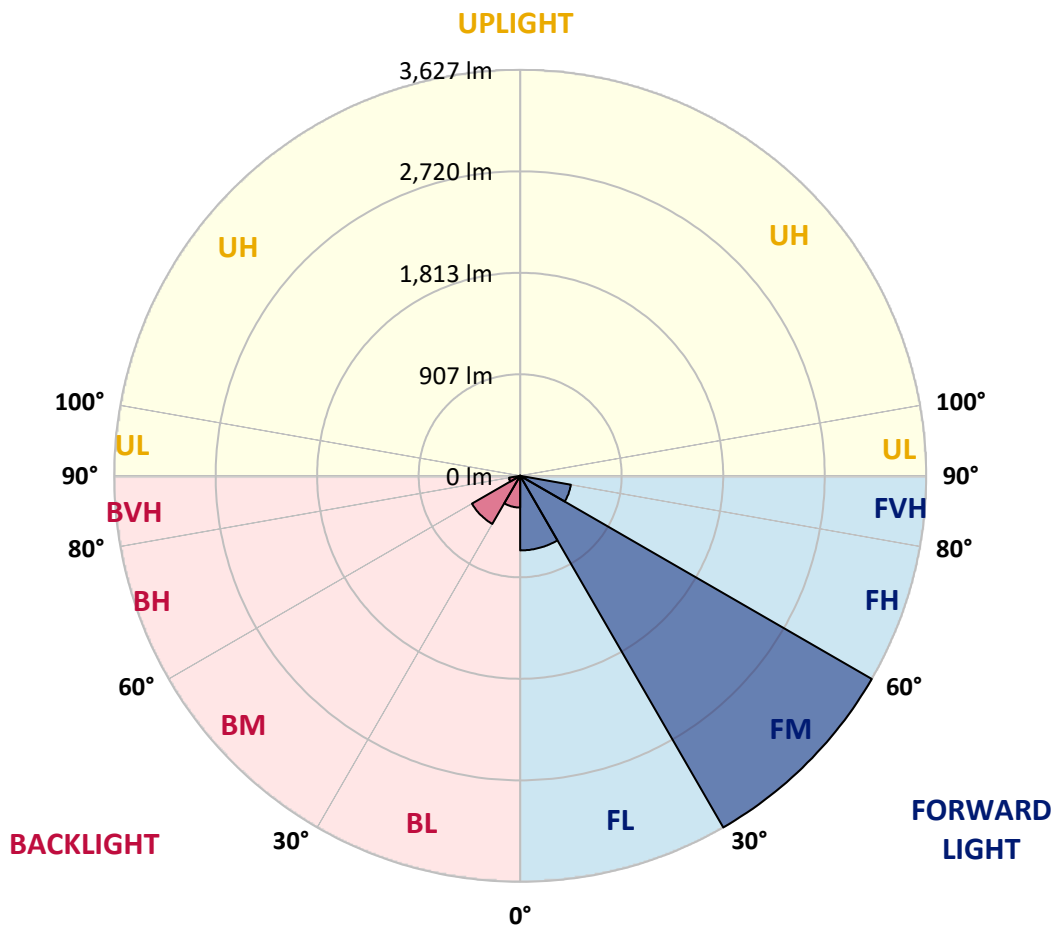


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.4	11.8			
FM (30°-60°)	3626.9	64.3			
FH (60°-80°)	460.1	8.2			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	283.7	5.0	B1/500		
BM (30°-60°)	497.0	8.8	B1/1000		
BH (60°-80°)	101.2	1.8	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6
2.5°	1082.2	1057.2	1058.2	1056.2	1053.0	1041.6	1007.3	1002.1	979.2	972.9	952.1
5°	1212.2	1190.4	1202.9	1184.1	1166.5	1156.1	1099.9	1073.8	1037.4	1023.9	994.8
7.5°	1293.4	1283.0	1278.8	1279.9	1263.2	1237.2	1212.2	1155.0	1106.1	1095.7	1034.3
10°	1332.9	1326.7	1332.9	1329.8	1337.1	1340.2	1296.5	1262.2	1190.4	1172.7	1077.0
12.5°	1342.3	1354.8	1360.0	1373.5	1391.2	1421.4	1418.3	1371.4	1275.7	1264.3	1142.5
15°	1365.2	1375.6	1370.4	1392.3	1425.6	1476.5	1503.6	1496.3	1393.3	1372.5	1218.5
17.5°	1386.0	1367.3	1385.0	1428.7	1462.0	1540.0	1605.6	1635.7	1521.3	1497.4	1288.2
20°	1414.1	1408.9	1405.8	1427.6	1486.9	1591.0	1721.1	1776.2	1664.9	1639.9	1388.1
22.5°	1499.4	1500.5	1498.4	1466.1	1508.8	1626.4	1822.0	1958.3	1836.6	1815.8	1501.5
25°	1611.8	1598.3	1587.9	1561.9	1556.7	1658.6	1924.0	2181.0	2042.6	2028.0	1624.3
27.5°	1730.4	1730.4	1699.2	1675.3	1642.0	1738.8	2017.6	2397.4	2291.3	2271.5	1731.5
30°	1859.5	1866.8	1862.6	1811.6	1790.8	1826.2	2113.4	2674.2	2576.4	2551.4	1908.4
32.5°	2049.9	2034.3	2052.0	2009.3	1947.9	1979.1	2264.2	2921.9	2946.8	2911.5	2140.4
35°	2301.7	2292.3	2280.9	2211.2	2138.3	2163.3	2477.6	3226.8	3412.0	3394.3	2374.5
37.5°	2527.5	2522.3	2512.9	2465.1	2380.8	2411.0	2720.0	3544.1	3865.7	3807.4	2705.4
40°	2764.7	2792.8	2762.7	2720.0	2643.0	2709.6	3005.1	3732.5	4247.5	4176.8	2958.3
42.5°	3086.3	3064.4	3078.0	2999.9	2958.3	3031.1	3291.3	3920.8	4544.1	4459.8	3226.8
45°	3428.6	3429.7	3393.2	3368.3	3260.1	3339.1	3467.1	4024.9	4780.3	4714.7	3429.7
47.5°	3648.2	3647.1	3686.7	3726.2	3614.9	3536.8	3586.8	4123.7	4902.0	4871.9	3503.5
50°	3613.8	3624.2	3675.2	3823.0	3881.3	3776.2	3699.2	4094.6	4957.2	4954.1	3567.0
52.5°	3143.5	3177.8	3263.2	3476.5	3769.9	3900.0	3816.7	4148.7	4984.2	4989.4	3661.7
55°	2393.3	2412.0	2574.3	2833.4	3158.1	3603.4	3769.9	4191.3	5005.1	5014.4	3776.2
56°	2075.9	2026.0	2260.1	2444.3	2832.4	3319.4	3651.3	4158.0	4992.6	5064.4	3833.4
57.5°	1567.1	1533.8	1723.2	1953.1	2326.7	2840.7	3282.9	4000.9	4908.3	4907.2	3751.2
60°	953.1	919.8	1065.5	1200.8	1409.9	1749.2	2218.5	3186.2	4149.7	4237.1	3037.4
62.5°	567.1	587.9	731.5	813.7	881.3	916.7	1147.7	1893.8	2768.9	2831.3	1884.4
65°	377.7	385.0	493.2	628.5	658.7	524.4	467.2	766.9	1200.8	1162.3	777.3
67.5°	233.1	249.7	330.9	472.4	523.4	382.9	221.6	286.2	330.9	330.9	224.8
70°	141.5	149.8	220.6	321.5	359.0	246.6	161.3	161.3	159.2	156.1	134.2
72.5°	67.6	72.8	112.4	165.4	168.6	130.1	124.9	136.3	133.2	132.2	111.3
75°	29.1	31.2	39.5	52.0	59.3	55.1	76.0	97.8	100.9	97.8	80.1
77.5°	9.4	10.4	14.6	18.7	19.8	23.9	32.3	40.6	46.8	43.7	39.5
80°	1.0	2.1	4.2	9.4	14.6	18.7	23.9	27.1	30.2	30.2	28.1
82.5°	1.0	1.0	4.2	8.3	13.5	17.7	22.9	26.0	30.2	31.2	29.1
85°	0.0	1.0	3.1	7.3	11.4	11.4	10.4	10.4	7.3	7.3	7.3
87.5°	0.0	0.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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°	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6
2.5°	947.9	945.9	917.8	900.1	890.7	872.0	860.5	852.2	846.0	838.7	839.7
5°	960.4	953.1	906.3	874.1	835.6	814.8	797.1	782.5	773.1	771.0	766.9
7.5°	995.8	957.3	886.6	828.3	779.4	758.6	743.0	733.6	737.8	728.4	735.7
10°	1022.9	965.6	862.6	778.3	729.4	713.8	705.5	712.8	723.2	719.0	713.8
12.5°	1056.2	974.0	824.1	730.5	684.7	673.2	687.8	701.3	722.1	730.5	720.1
15°	1093.6	983.3	775.2	675.3	646.2	655.5	680.5	704.5	725.3	735.7	741.9
17.5°	1139.4	980.2	727.3	631.6	609.8	636.8	667.0	688.8	720.1	735.7	731.5
20°	1182.1	969.8	674.3	587.9	589.0	613.9	638.9	674.3	690.9	711.7	704.5
22.5°	1222.6	951.1	619.1	557.7	557.7	596.2	608.7	631.6	646.2	656.6	655.5
25°	1279.9	915.7	573.3	528.6	541.1	566.1	576.5	583.7	577.5	585.8	586.9
27.5°	1320.5	879.3	535.9	502.6	525.5	544.2	541.1	536.9	522.4	510.9	518.2
30°	1364.2	836.6	503.6	484.9	497.4	514.0	501.5	489.1	466.2	447.4	448.5
32.5°	1426.6	816.8	475.5	464.1	480.7	482.8	469.3	450.6	427.7	410.0	408.9
35°	1543.1	804.3	451.6	450.6	453.7	454.7	441.2	418.3	408.9	394.4	399.6
37.5°	1659.7	798.1	435.0	430.8	429.7	430.8	415.2	393.3	411.0	410.0	412.1
40°	1808.5	826.2	411.0	405.8	406.9	406.9	387.1	380.8	412.1	415.2	416.2
42.5°	1959.4	861.6	395.4	378.8	382.9	382.9	372.5	365.2	387.1	366.3	363.2
45°	2090.5	913.6	378.8	351.7	362.1	367.3	364.2	351.7	338.2	302.8	302.8
47.5°	2133.1	959.4	359.0	325.7	334.0	356.9	347.5	321.5	297.6	268.5	266.4
50°	2208.1	1009.3	343.4	295.5	313.2	341.3	331.9	305.9	278.9	258.1	259.1
52.5°	2285.1	1066.6	314.2	260.1	282.0	328.8	328.8	299.7	258.1	243.5	241.4
55°	2400.6	1064.5	262.2	213.3	251.8	310.1	315.3	268.5	231.0	219.6	219.6
56°	2417.2	1016.6	236.2	199.8	238.3	304.9	305.9	260.1	220.6	208.1	208.1
57.5°	2292.3	917.8	207.1	183.1	221.6	295.5	296.6	252.9	212.3	194.6	192.5
60°	1763.7	621.2	172.7	163.4	200.8	266.4	271.6	230.0	186.3	172.7	171.7
62.5°	995.8	344.4	151.9	147.8	172.7	226.8	242.4	200.8	158.2	150.9	153.0
65°	454.7	189.4	128.0	119.7	139.4	174.8	195.6	165.4	130.1	121.7	121.7
67.5°	166.5	129.0	109.3	94.7	97.8	113.4	126.9	107.2	86.4	73.9	77.0
70°	118.6	108.2	95.7	82.2	76.0	73.9	72.8	60.4	42.7	33.3	35.4
72.5°	95.7	89.5	80.1	69.7	59.3	49.9	42.7	31.2	19.8	13.5	12.5
75°	68.7	65.6	58.3	49.9	41.6	35.4	29.1	19.8	10.4	5.2	5.2
77.5°	35.4	35.4	34.3	31.2	26.0	20.8	16.6	11.4	6.2	2.1	2.1
80°	27.1	29.1	30.2	27.1	23.9	18.7	13.5	8.3	4.2	1.0	1.0
82.5°	26.0	30.2	32.3	28.1	23.9	17.7	13.5	8.3	4.2	1.0	1.0
85°	6.2	6.2	9.4	10.4	13.5	14.6	11.4	7.3	3.1	1.0	1.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	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)