

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: P451286

Luminaire Tested: **GALN-SA2A-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5293 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

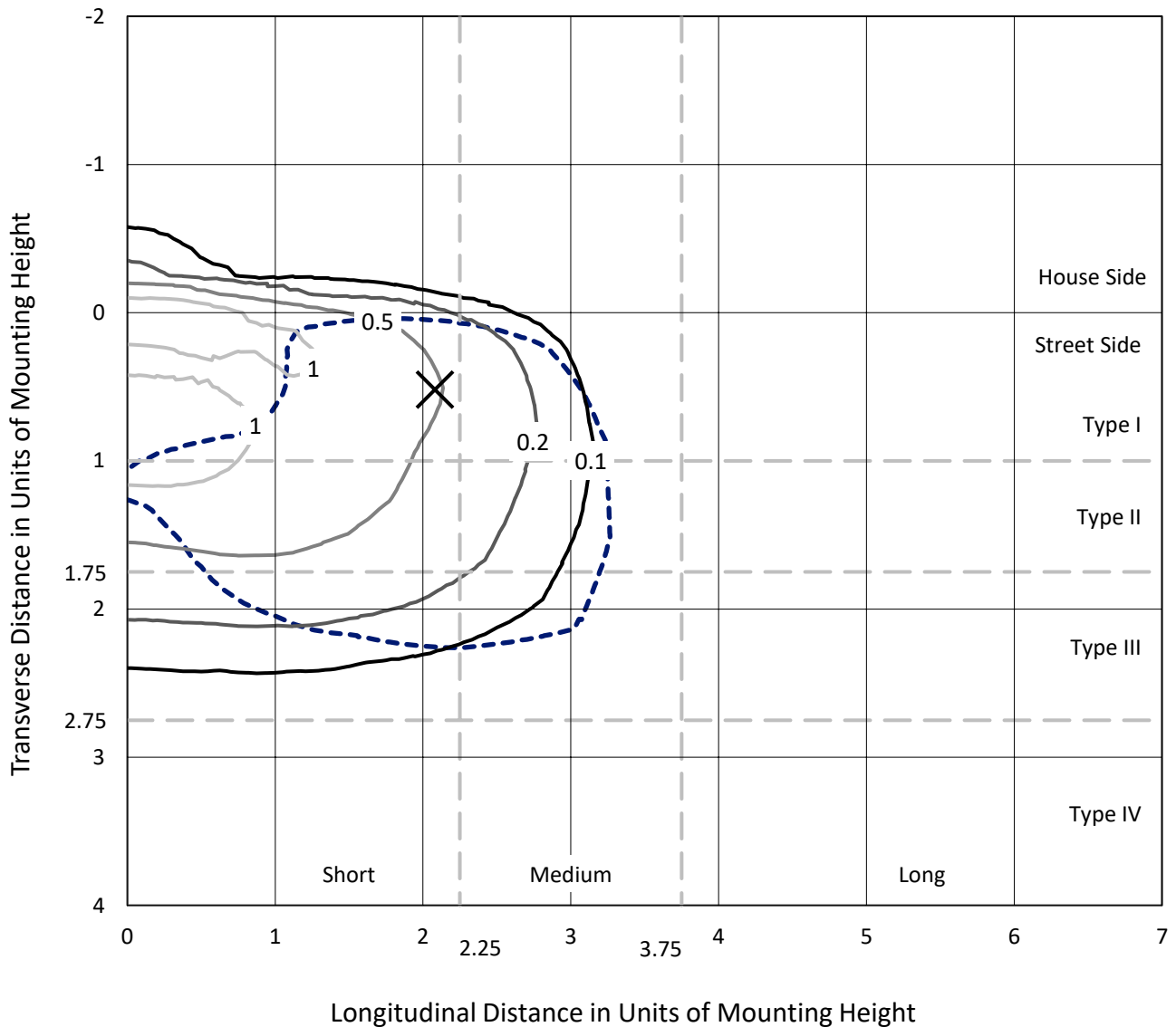
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451286
 CATALOG NUMBER: GALN-SA2A-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

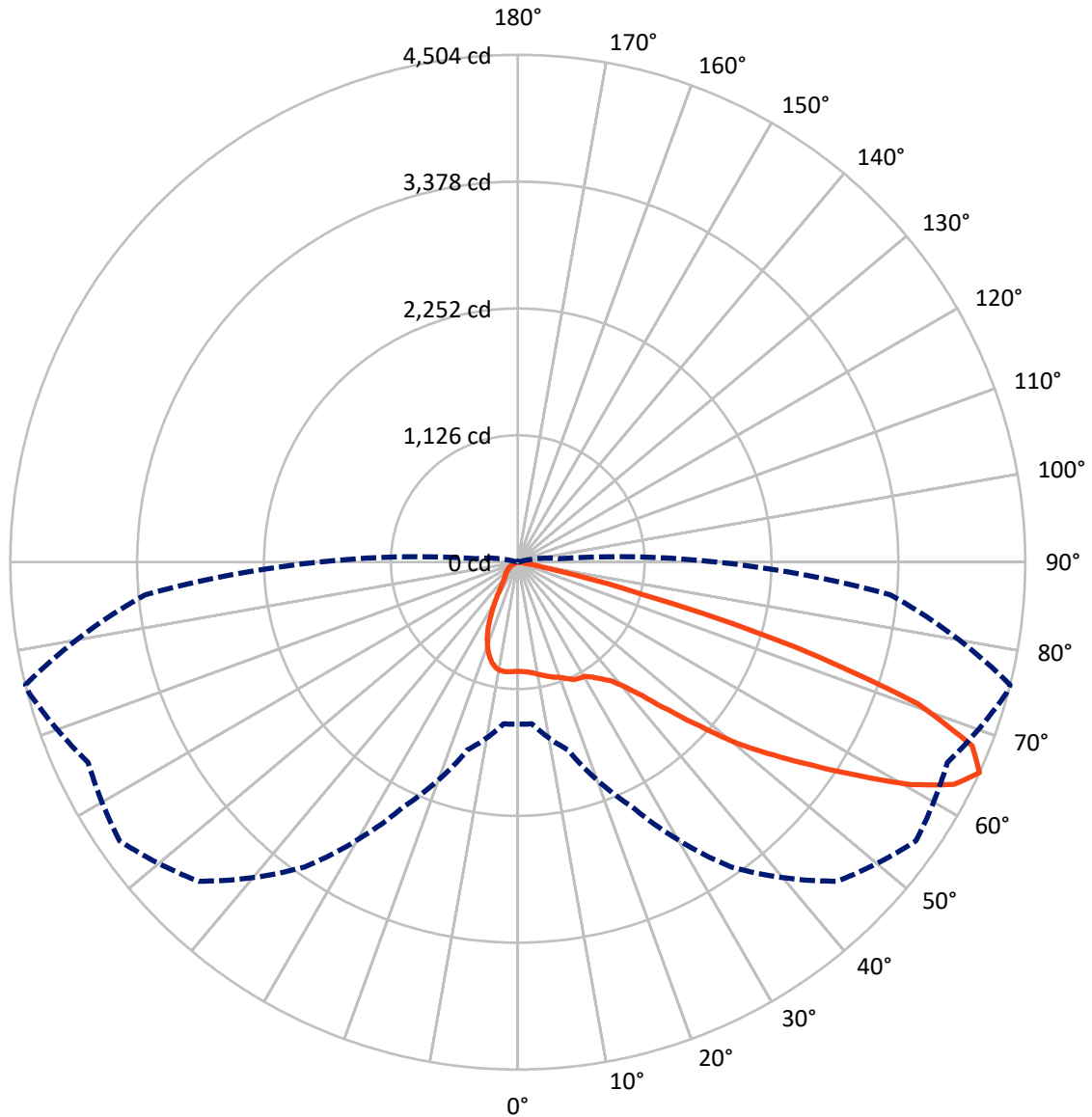
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

REPORT NUMBER: P451286
CATALOG NUMBER: GALN-SA2A-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P451286

CATALOG NUMBER: GALN-SA2A-827-U-T3R-HSS

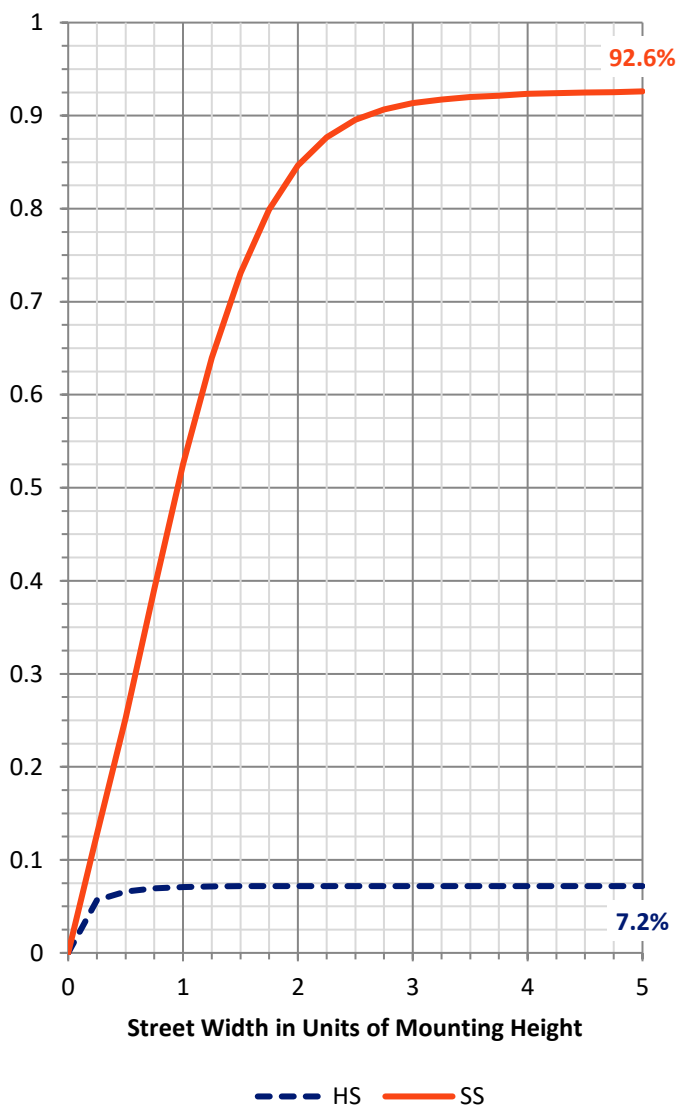
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.3	0.0	382.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4910.7	0.0	4910.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	5293.0	0.0	5293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.5
10°-20°	177.6	3.4
20°-30°	286.2	5.4
30°-40°	497.6	9.4
40°-50°	822.2	15.5
50°-60°	1270.2	24.0
60°-70°	1551.1	29.3
70°-80°	588.7	11.1
80°-90°	19.6	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°	5293.0	100.0
0°-180°	5293.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451286

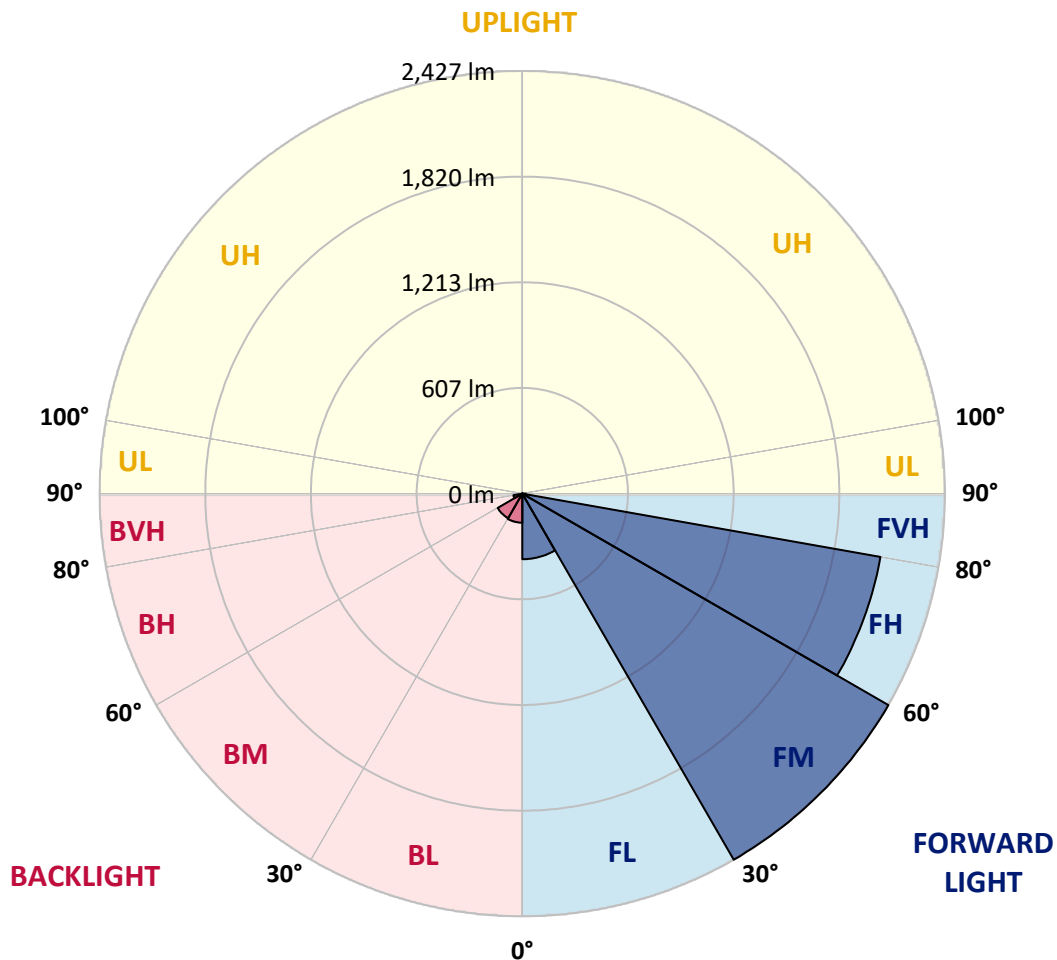
CATALOG NUMBER: GALN-SA2A-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.5	7.1			
FM (30°-60°)	2426.9	45.9			
FH (60°-80°)	2087.9	39.4			G2/5000
FVH (80°-90°)	19.4	0.4			G1/100
BL (0°-30°)	167.0	3.2	B1/500		
BM (30°-60°)	163.1	3.1	B0/220		
BH (60°-80°)	51.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P451286

CATALOG NUMBER: GALN-SA2A-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3
2.5°	925.3	925.7	927.9	933.5	942.1	949.2	955.2	964.9	971.6	972.4	974.6
5°	861.4	856.9	861.4	876.0	889.0	908.8	933.1	957.4	979.1	980.6	991.1
7.5°	789.6	793.4	800.5	815.4	840.1	870.3	905.5	948.8	989.9	993.7	1014.2
10°	716.8	725.0	736.6	759.4	793.7	833.0	880.8	942.8	1007.1	1012.4	1047.9
12.5°	649.5	653.2	667.4	698.1	740.7	796.0	862.1	939.5	1026.2	1032.5	1083.7
15°	597.9	602.8	615.1	642.8	690.2	761.2	846.8	938.4	1044.9	1053.8	1119.6
17.5°	588.2	591.2	596.4	615.1	656.6	733.6	833.0	938.0	1062.8	1073.6	1152.9
20°	628.2	625.6	620.3	618.5	641.3	712.3	822.9	941.0	1080.0	1092.3	1188.0
22.5°	728.3	731.7	701.1	664.8	657.3	708.9	821.4	955.2	1107.3	1121.8	1227.2
25°	941.0	915.2	867.4	780.7	715.3	729.5	838.2	988.8	1139.0	1155.1	1262.7
27.5°	1176.0	1168.2	1093.8	951.1	829.2	772.8	868.1	1014.6	1149.5	1165.9	1282.9
30°	1407.0	1416.3	1331.1	1173.4	994.8	853.2	896.1	1024.3	1158.8	1176.0	1308.7
32.5°	1621.1	1632.3	1557.6	1401.4	1189.9	992.2	944.3	1062.1	1198.1	1215.6	1351.7
35°	1789.7	1791.1	1734.7	1610.3	1402.9	1161.1	1048.6	1128.2	1251.2	1271.7	1397.3
37.5°	1944.4	1942.1	1876.0	1768.7	1580.4	1328.9	1179.8	1204.4	1311.7	1333.0	1463.0
40°	2059.1	2060.6	2039.3	1938.4	1745.9	1484.0	1283.7	1275.8	1413.3	1446.6	1558.7
42.5°	2135.7	2149.5	2160.0	2108.8	1954.1	1674.9	1443.2	1428.7	1589.7	1617.4	1694.0
45°	2197.7	2222.4	2274.7	2272.1	2154.0	1909.2	1662.2	1632.3	1839.7	1869.3	1866.3
47.5°	2243.0	2268.0	2354.7	2407.0	2342.0	2136.4	1937.6	1911.9	2138.3	2170.5	2056.5
50°	2266.1	2296.0	2406.6	2507.9	2488.8	2355.4	2251.5	2253.0	2498.9	2530.0	2277.0
52.5°	2211.9	2250.8	2434.3	2616.7	2653.6	2565.1	2545.6	2595.0	2819.9	2846.5	2476.1
55°	2038.9	2087.9	2396.5	2709.3	2844.6	2812.5	2879.7	2954.9	3170.9	3188.0	2680.6
57.5°	1929.4	1981.4	2285.2	2788.2	3074.1	3123.4	3229.9	3284.8	3533.0	3576.7	2915.2
60°	1837.1	1877.8	2193.6	2805.0	3307.3	3503.8	3607.3	3664.1	3979.9	4008.3	3173.5
62.5°	1683.5	1730.2	2038.9	2687.7	3424.6	3808.4	4022.9	3997.5	4325.6	4345.4	3331.9
65°	1436.5	1440.6	1725.0	2392.8	3303.5	4006.1	4314.7	4208.2	4490.8	4504.2	3319.6
67.5°	1072.1	1111.8	1327.0	1880.8	2790.4	3837.2	4409.3	4213.8	4386.5	4349.1	3056.1
70°	690.6	720.9	899.5	1304.2	2012.0	3202.2	4095.8	3925.0	3849.9	3766.9	2501.6
72.5°	318.8	357.6	534.4	745.2	1193.2	2281.1	3324.8	3188.8	2771.0	2566.2	1590.1
75°	139.0	148.7	263.8	393.1	559.4	1206.3	2192.1	1979.5	1251.5	1143.2	636.4
77.5°	84.8	91.2	138.3	210.8	219.7	459.7	1180.9	863.6	386.8	341.2	172.6
80°	57.5	64.7	100.5	110.2	75.1	128.2	443.2	230.6	78.1	74.7	37.0
82.5°	28.0	35.5	74.4	61.7	32.5	41.1	128.9	49.3	22.8	21.3	13.1
85°	4.1	7.1	41.9	40.4	14.6	9.7	22.8	12.3	7.8	7.5	6.0
87.5°	0.0	0.0	14.2	6.4	1.5	1.5	2.6	2.6	3.0	2.6	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451286
 CATALOG NUMBER: GALN-SA2A-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3	968.3
2.5°	975.7	977.6	970.5	960.4	949.6	938.7	923.4	909.6	901.4	906.2	894.3
5°	993.3	991.8	973.1	942.5	901.7	852.8	804.2	762.7	749.3	729.1	726.8
7.5°	1017.6	1013.5	973.9	903.6	811.7	719.7	630.1	570.6	536.6	507.9	508.6
10°	1051.6	1039.6	965.3	835.2	683.9	545.2	430.9	352.4	318.4	307.6	299.0
12.5°	1086.7	1063.6	941.4	742.9	532.5	372.6	262.0	214.1	193.2	186.5	185.7
15°	1118.1	1081.5	899.5	631.9	387.2	238.0	178.6	162.9	160.3	160.7	160.3
17.5°	1149.1	1095.7	841.6	514.2	263.1	170.8	153.6	149.9	151.0	152.5	152.1
20°	1174.9	1098.7	767.6	392.4	186.1	149.9	144.2	143.5	144.6	145.7	145.7
22.5°	1202.9	1100.9	679.8	271.7	152.1	139.4	136.4	136.4	137.9	139.4	139.8
25°	1223.9	1088.6	574.8	195.1	134.2	129.3	127.8	128.2	129.7	130.4	130.0
27.5°	1227.2	1053.8	463.4	149.5	121.8	117.0	115.5	117.0	115.1	116.2	115.5
30°	1230.2	1009.7	350.5	125.9	110.6	103.1	100.9	98.7	97.2	95.3	94.9
32.5°	1239.6	957.8	256.0	113.2	100.2	91.9	86.7	80.3	75.5	74.0	73.6
35°	1243.7	895.4	188.0	103.1	90.8	81.8	72.5	63.5	56.4	53.8	55.7
37.5°	1259.4	834.8	145.7	95.7	82.6	71.4	59.4	48.2	41.5	40.0	40.7
40°	1291.5	769.1	122.2	89.3	75.5	61.7	47.1	36.2	31.8	30.3	29.9
42.5°	1343.1	703.7	108.7	83.3	68.4	51.9	37.0	28.4	24.7	23.5	23.5
45°	1405.9	640.9	99.4	77.0	60.9	41.9	29.1	22.8	20.6	19.8	19.8
47.5°	1488.5	586.0	91.6	70.6	52.7	33.3	23.5	19.8	18.3	18.7	19.1
50°	1572.2	545.2	83.0	63.5	43.3	27.3	20.2	17.6	17.2	17.6	17.6
52.5°	1635.3	521.3	71.4	53.8	34.0	22.8	17.9	16.4	16.1	15.3	15.3
55°	1720.5	516.1	56.8	43.7	26.9	19.1	16.1	14.9	13.8	13.1	12.7
57.5°	1830.0	522.1	43.7	34.0	20.9	15.7	14.2	12.3	10.8	9.3	9.3
60°	1898.0	508.6	34.0	26.2	15.3	12.7	10.8	9.0	7.1	6.0	5.6
62.5°	1876.4	451.8	26.9	19.4	10.8	9.3	7.1	6.0	4.1	3.0	2.6
65°	1764.6	364.7	21.7	13.5	7.8	5.6	3.7	3.7	1.9	0.4	0.0
67.5°	1544.5	270.2	17.2	9.0	4.5	2.6	1.9	1.1	0.0	0.0	0.0
70°	1257.1	195.1	13.5	5.6	2.6	1.9	0.7	0.4	0.0	0.0	0.0
72.5°	798.2	111.7	10.5	3.4	1.9	0.7	0.0	0.0	0.0	0.0	0.0
75°	308.7	43.7	7.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	87.4	20.6	4.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.8	9.0	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.8	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)