

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: P382825

Luminaire Tested: **GLEON-SA2A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7271.7 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

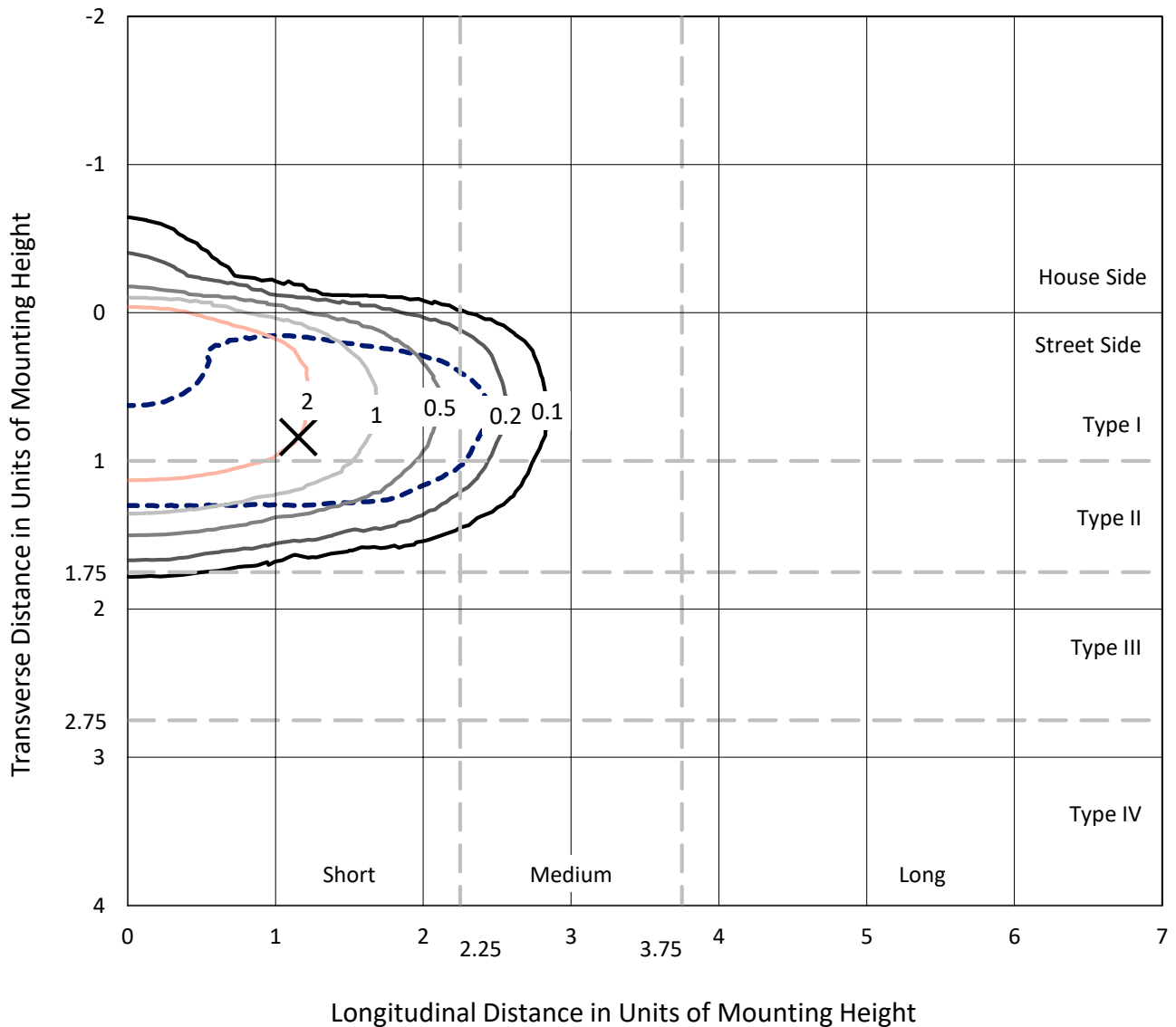
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382825
 CATALOG NUMBER: GLEON-SA2A-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

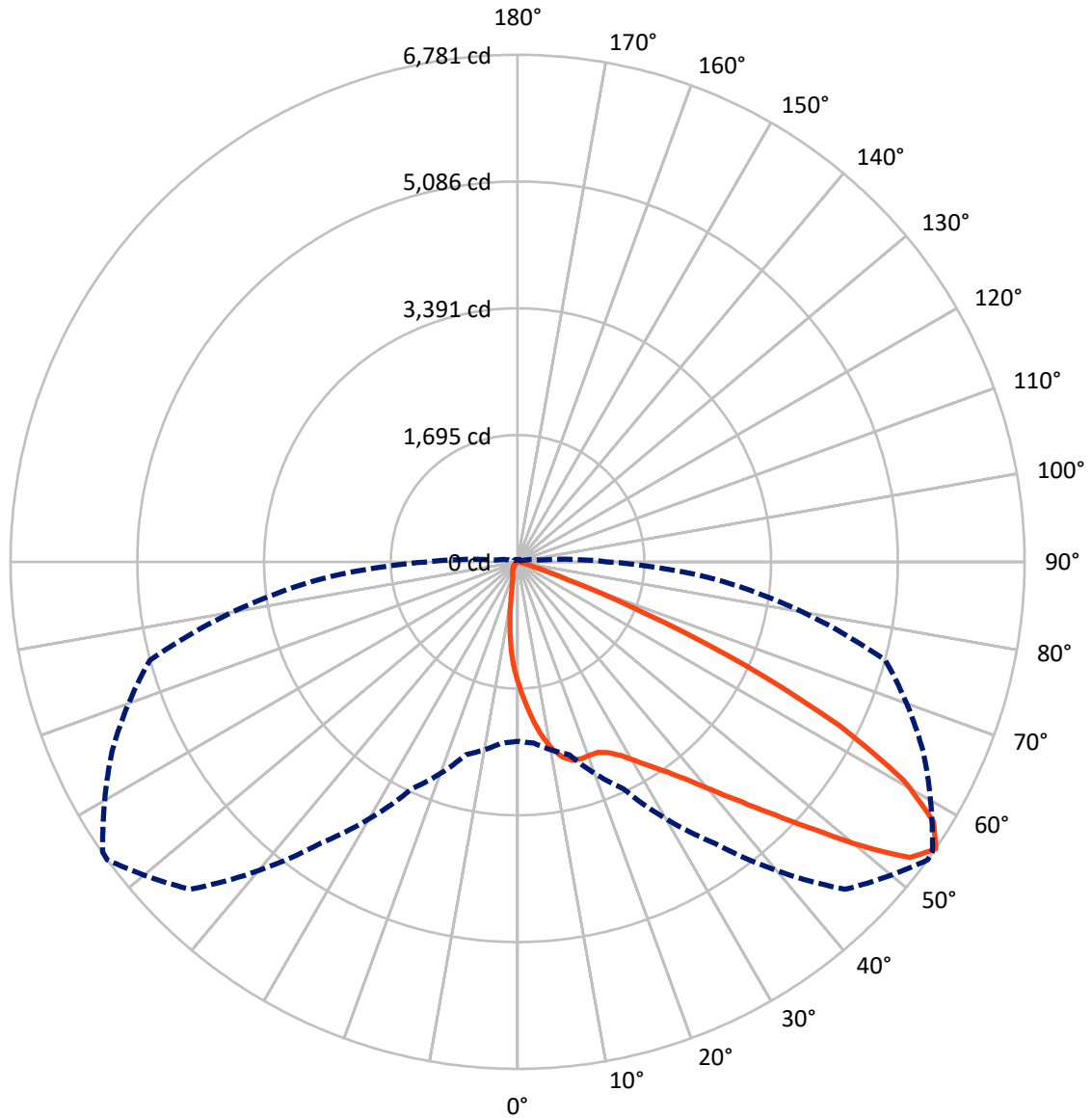
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P382825
CATALOG NUMBER: GLEON-SA2A-735-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P382825
 CATALOG NUMBER: GLEON-SA2A-735-U-AFL-HSS

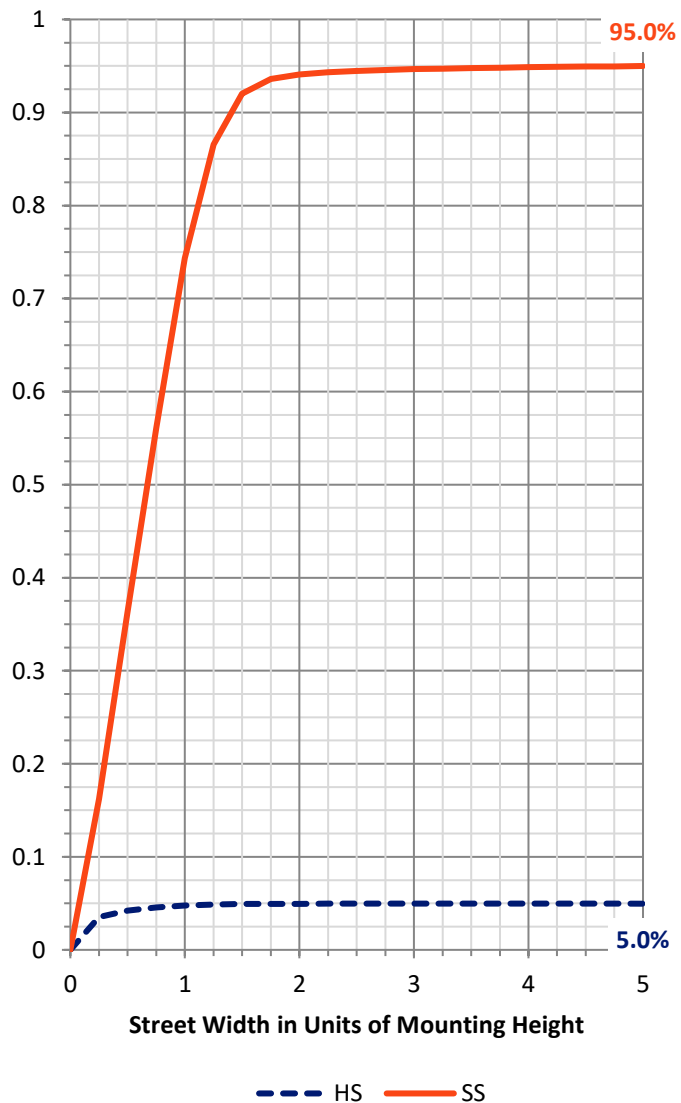
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.8	0.0	362.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6908.9	0.0	6908.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	7271.7	0.0	7271.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	2.1
10°-20°	411.3	5.7
20°-30°	702.2	9.7
30°-40°	1127.0	15.5
40°-50°	1800.9	24.8
50°-60°	1929.7	26.5
60°-70°	990.8	13.6
70°-80°	150.1	2.1
80°-90°	9.8	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°	7271.7	100.0
0°-180°	7271.7	100.0

Coefficient of Utilization

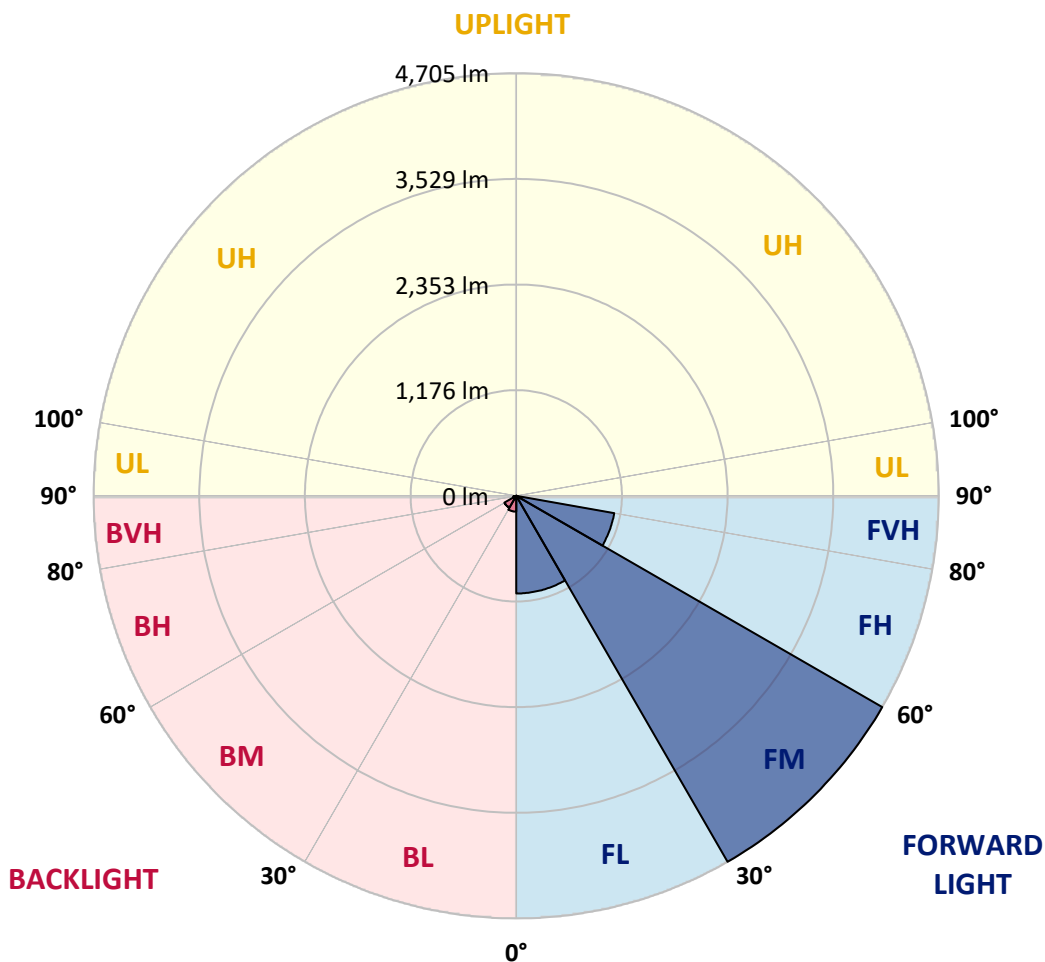


REPORT NUMBER: P382825
 CATALOG NUMBER: GLEON-SA2A-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.0	14.9			
FM (30°-60°)	4705.1	64.7			
FH (60°-80°)	1107.4	15.2			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	176.5	2.4	B1/500		
BM (30°-60°)	152.5	2.1	B0/220		
BH (60°-80°)	33.4	0.5	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1
 Type II Short





REPORT NUMBER: P382825

CATALOG NUMBER: GLEON-SA2A-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	2043.7	2013.3	2014.2	2000.4	1949.8	1910.2	1869.2	1859.4	1795.3	1728.1	1663.4
5°	2397.0	2374.7	2369.4	2342.7	2272.3	2197.9	2118.2	2099.6	1974.3	1836.7	1701.4
7.5°	2578.5	2578.8	2574.4	2564.6	2520.7	2448.5	2351.1	2331.7	2161.2	1954.9	1741.0
10°	2525.7	2537.7	2562.1	2594.5	2628.1	2619.0	2545.8	2528.2	2342.9	2079.9	1784.9
12.5°	2402.6	2404.2	2431.5	2484.6	2581.3	2680.5	2681.8	2675.9	2516.7	2210.5	1833.3
15°	2341.4	2347.4	2357.5	2391.7	2483.3	2642.2	2755.9	2764.4	2675.9	2349.3	1884.8
17.5°	2381.6	2390.1	2381.6	2385.7	2438.8	2581.6	2768.8	2790.5	2815.0	2486.5	1933.5
20°	2490.6	2498.4	2483.3	2466.7	2477.1	2564.1	2759.7	2788.9	2923.9	2608.3	1974.3
22.5°	2637.6	2640.7	2617.7	2590.4	2582.9	2623.7	2767.3	2797.3	3011.2	2718.5	2000.0
25°	2799.3	2802.1	2773.5	2742.1	2724.2	2740.9	2829.1	2851.7	3088.2	2823.8	2014.8
27.5°	2975.5	2978.0	2942.1	2903.5	2882.8	2883.4	2931.1	2955.3	3170.1	2943.7	2026.8
30°	3161.7	3160.4	3127.4	3073.7	3047.4	3046.7	3078.1	3102.6	3288.8	3097.6	2043.1
32.5°	3370.8	3368.3	3321.5	3254.9	3225.1	3229.5	3257.4	3271.6	3436.1	3261.5	2072.3
35°	3646.2	3639.0	3568.3	3485.8	3430.8	3429.2	3452.8	3464.1	3623.9	3460.0	2120.9
37.5°	4003.6	3997.0	3901.2	3781.2	3704.0	3675.0	3703.1	3717.5	3891.8	3714.6	2199.2
40°	4355.9	4349.3	4292.5	4182.6	4063.5	3994.1	4016.1	4031.6	4226.2	4023.6	2297.8
42.5°	4599.0	4604.6	4624.4	4633.5	4522.0	4376.3	4386.4	4402.4	4577.6	4354.1	2410.5
45°	4663.0	4675.3	4787.0	5006.6	5048.3	4934.7	4829.5	4838.3	4934.7	4684.4	2523.2
47.5°	4470.5	4493.1	4708.9	5117.1	5470.7	5551.1	5352.0	5340.4	5277.3	4951.6	2603.3
50°	4033.0	4053.8	4333.3	4937.2	5598.9	6139.6	5978.2	5943.9	5577.8	5111.5	2631.5
52.5°	3400.0	3425.1	3652.1	4370.6	5357.3	6402.2	6571.0	6542.5	5798.2	5124.1	2636.3
55°	2401.1	2431.5	2671.8	3349.8	4592.1	6193.3	6781.2	6772.7	5981.4	5090.7	2646.3
57.5°	1349.3	1371.3	1630.5	2147.3	3363.3	5394.4	6561.6	6617.9	6091.9	5033.0	2661.4
60°	599.2	605.1	739.2	1069.0	1969.0	4122.6	5933.3	6028.1	5997.0	4955.7	2686.9
62.5°	332.3	327.3	327.3	444.3	855.7	2552.2	4838.3	4995.0	5592.3	4864.4	2688.1
65°	260.4	255.6	242.1	244.0	325.9	1132.7	3350.4	3628.9	4823.5	4596.4	2597.6
67.5°	220.8	216.7	203.2	197.9	202.5	373.7	1840.8	2130.1	3660.1	3900.3	2250.1
70°	186.5	183.7	176.8	170.2	158.3	184.6	704.3	901.0	2255.4	2594.5	1535.9
72.5°	150.1	148.9	151.4	145.7	131.3	123.1	240.9	291.8	1013.1	1157.8	632.8
75°	129.4	128.7	130.0	124.4	108.1	85.7	122.5	133.8	285.8	283.3	128.1
77.5°	84.1	85.1	107.7	105.2	93.0	57.2	63.4	68.5	86.6	65.0	38.9
80°	53.7	53.1	54.7	87.3	83.6	43.7	31.7	33.3	41.7	32.0	18.8
82.5°	32.7	32.0	35.8	40.8	42.1	30.5	19.5	19.7	26.1	20.7	10.1
85°	2.8	3.7	21.7	20.1	14.4	9.4	9.4	10.1	13.8	12.2	5.7
87.5°	0.0	0.0	3.7	5.7	3.2	3.4	3.4	3.7	5.3	5.3	2.8
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: P382825

CATALOG NUMBER: GLEON-SA2A-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	1629.8	1597.1	1531.2	1467.7	1414.1	1362.3	1303.2	1244.8	1217.5	1206.5	1195.2
5°	1632.6	1565.5	1429.5	1292.5	1150.6	1022.8	913.8	802.1	746.2	721.7	710.3
7.5°	1636.4	1534.1	1314.2	1084.3	855.7	682.4	531.0	433.6	391.6	385.0	368.7
10°	1637.0	1496.1	1180.5	854.5	573.7	411.4	316.5	266.3	247.8	244.6	239.3
12.5°	1638.3	1451.2	1031.9	632.8	382.5	275.1	229.0	212.3	207.3	207.0	207.0
15°	1642.0	1404.0	877.7	456.0	274.8	218.0	200.9	194.4	192.5	193.5	193.1
17.5°	1642.0	1348.4	726.3	339.7	222.0	196.0	186.5	182.1	181.5	182.5	182.8
20°	1630.1	1281.0	587.5	264.4	196.9	181.8	173.4	169.3	167.7	168.3	168.6
22.5°	1601.5	1198.1	474.5	218.9	180.3	169.0	159.9	153.5	151.0	151.4	151.4
25°	1557.0	1099.7	371.2	189.4	166.7	155.1	144.5	137.2	135.6	135.4	136.0
27.5°	1499.8	991.1	295.5	166.7	150.7	139.7	129.1	123.1	121.8	122.1	122.5
30°	1443.6	878.4	233.0	147.6	132.8	122.5	114.3	111.5	111.5	112.4	112.7
32.5°	1392.1	770.0	184.4	131.0	116.8	107.4	102.7	102.4	104.0	104.6	104.9
35°	1347.9	669.8	152.6	118.1	104.2	96.1	94.6	95.8	97.6	98.9	99.2
37.5°	1316.4	580.4	133.5	107.4	94.6	87.9	87.7	90.1	92.6	95.5	96.1
40°	1303.2	504.6	120.3	98.0	86.6	81.6	80.7	84.1	88.9	93.0	93.6
42.5°	1292.2	442.8	109.0	88.9	80.4	73.1	72.8	77.2	82.9	87.0	87.9
45°	1282.8	393.2	98.7	79.2	72.2	62.8	63.7	69.4	73.8	78.2	79.2
47.5°	1263.4	352.3	87.3	68.7	59.7	53.7	55.6	60.6	64.1	70.6	71.6
50°	1228.5	319.1	75.6	56.2	48.7	46.5	49.3	52.7	57.2	62.8	63.4
52.5°	1205.0	293.9	65.7	47.1	40.1	40.8	43.7	44.9	47.4	49.7	49.0
55°	1191.4	280.1	57.5	40.8	34.2	36.1	36.7	35.2	33.9	31.7	30.7
57.5°	1189.9	267.5	51.1	35.5	30.2	31.1	28.9	23.6	19.2	16.7	16.0
60°	1187.4	252.2	46.2	29.8	26.7	25.4	20.7	12.9	9.1	8.5	8.5
62.5°	1160.1	228.3	42.4	25.2	22.6	19.2	11.9	6.0	5.0	5.3	5.3
65°	1073.0	195.0	38.7	20.4	17.9	13.8	6.0	3.4	1.9	2.2	2.2
67.5°	912.3	155.5	34.6	15.7	13.5	8.8	3.4	1.6	0.0	0.0	0.0
70°	610.8	96.4	29.3	11.0	8.8	5.3	2.5	0.3	0.0	0.0	0.0
72.5°	234.3	52.2	23.6	6.6	5.7	3.7	1.6	0.0	0.0	0.0	0.0
75°	52.7	34.2	16.3	4.8	4.1	2.5	0.7	0.0	0.0	0.0	0.0
77.5°	20.1	24.8	9.4	3.2	2.8	1.6	0.0	0.0	0.0	0.0	0.0
80°	9.8	14.7	4.4	1.9	1.6	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	5.7	1.9	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	2.8	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.9	0.3	0.3	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)