

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: P318835

Luminaire Tested: **GLEON-SA1B-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4425 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

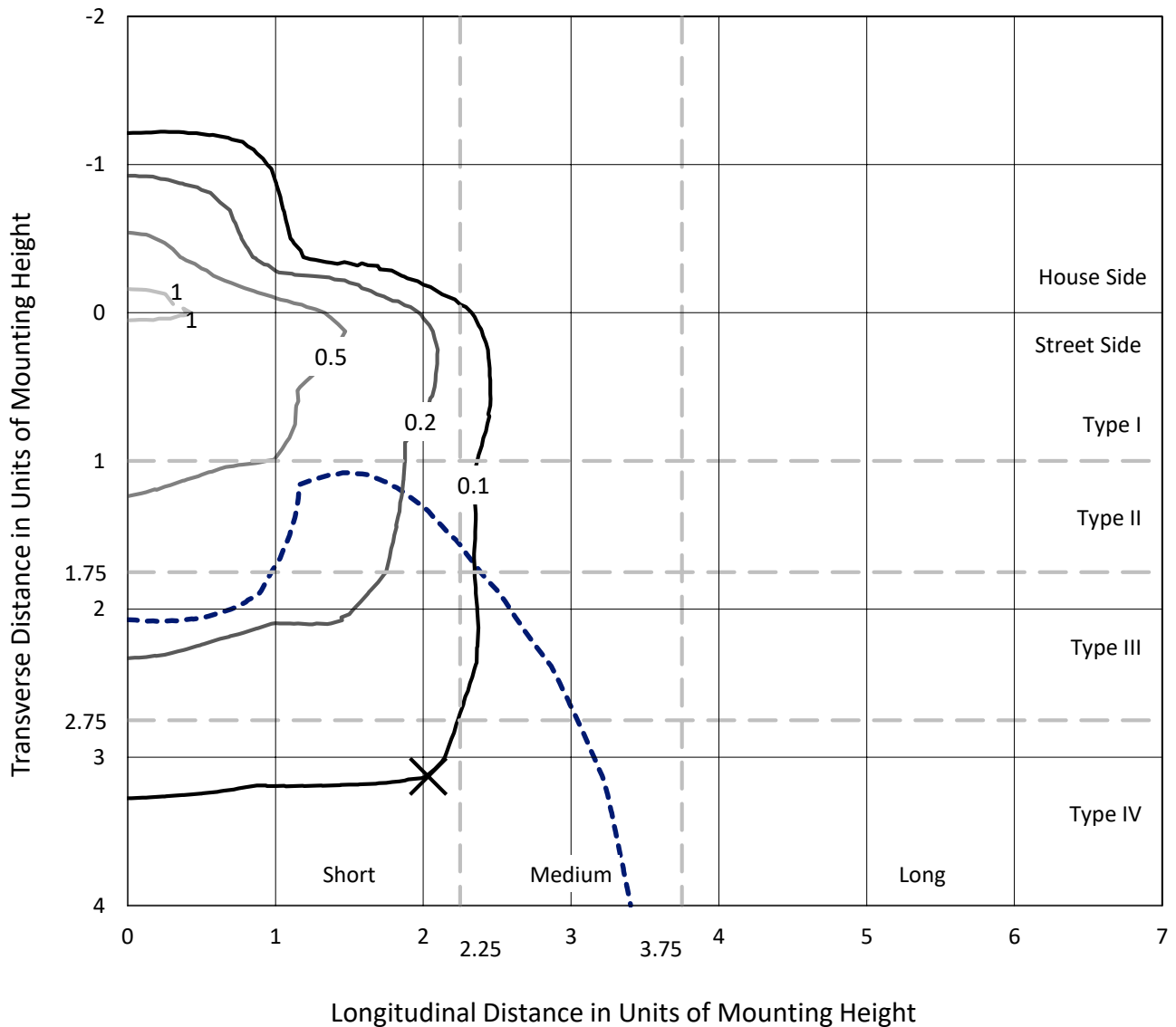
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

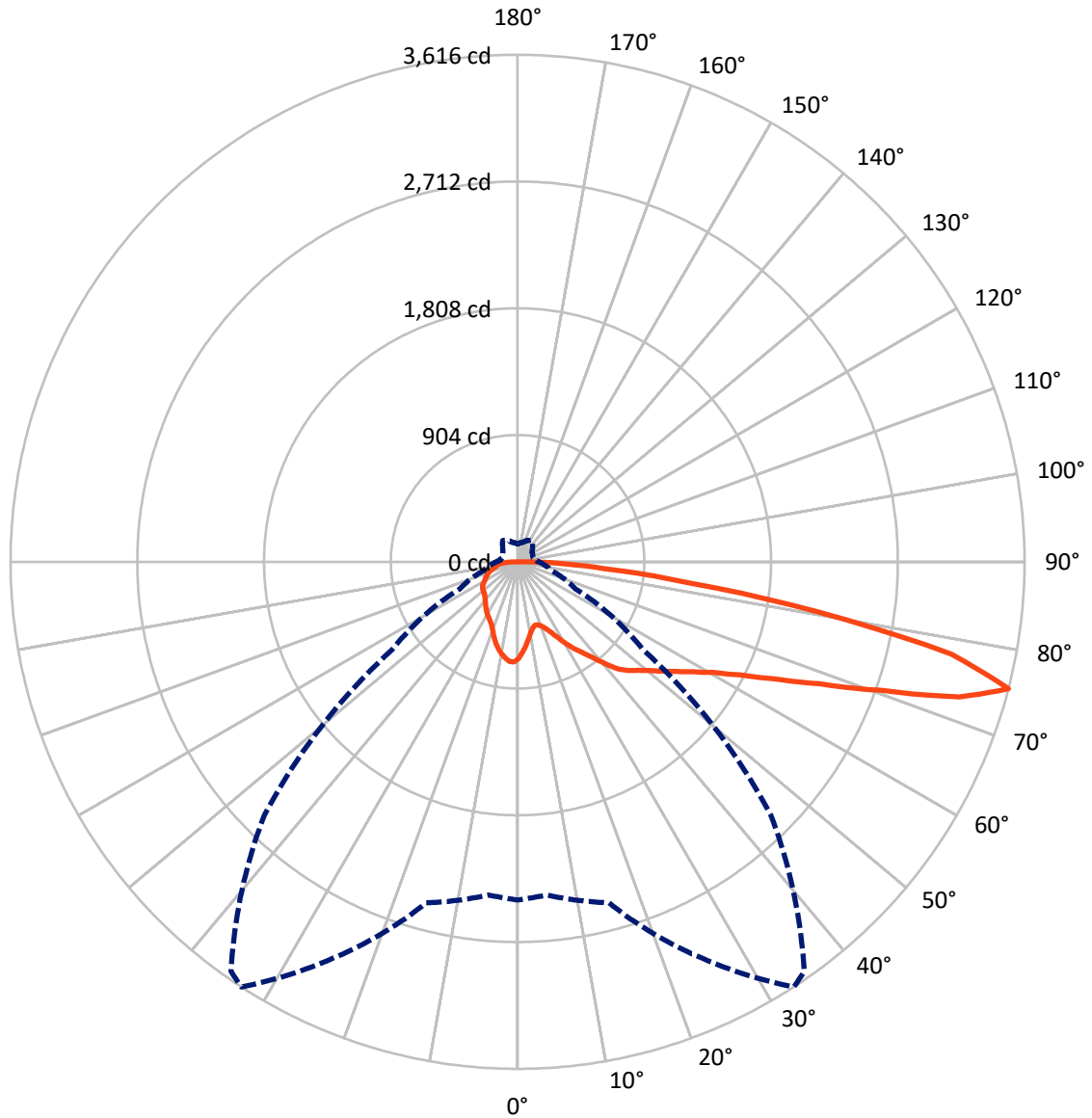
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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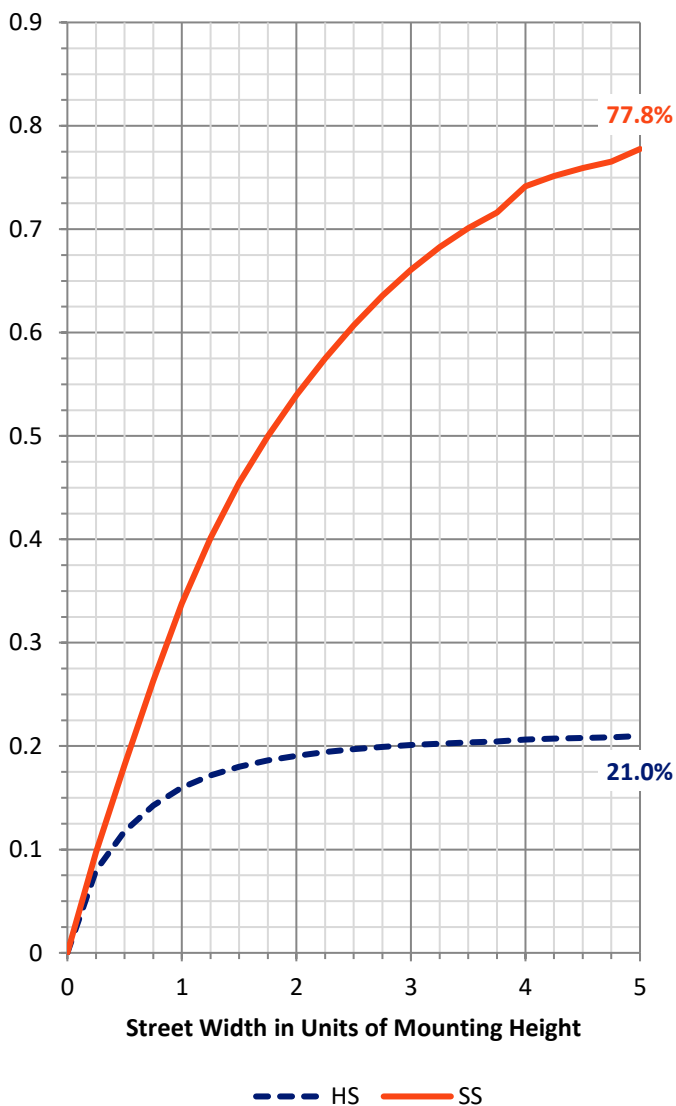
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	950.2	0.0	950.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	3474.8	0.0	3474.8
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	4425.0	0.0	4425.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	1.4
10°-20°	169.4	3.8
20°-30°	276.7	6.3
30°-40°	412.0	9.3
40°-50°	591.0	13.4
50°-60°	811.3	18.3
60°-70°	1015.7	23.0
70°-80°	918.9	20.8
80°-90°	167.4	3.8
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°	4425.0	100.0
0°-180°	4425.0	100.0

**Coefficient of Utilization**

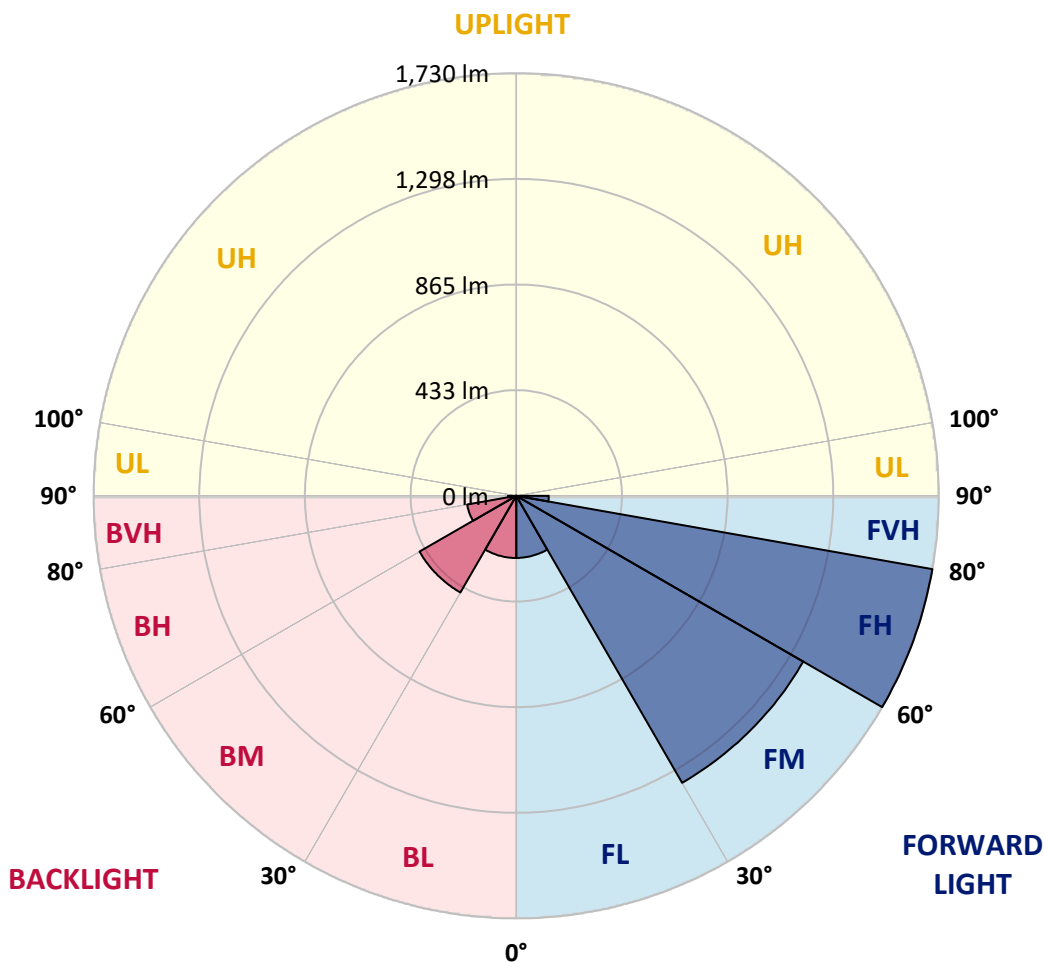


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.1	5.7			
FM (30°-60°)	1357.1	30.7			
FH (60°-80°)	1730.3	39.1			G1/1800
FVH (80°-90°)	133.3	3.0			G2/225
BL (0°-30°)	254.5	5.8	B1/500		
BM (30°-60°)	457.3	10.3	B1/1000		
BH (60°-80°)	204.3	4.6	B1/500		G1/500
BVH (80°-90°)	34.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7
2.5°	642.3	639.8	644.4	645.0	649.0	650.5	656.0	664.6	671.6	679.7	687.1
5°	584.0	582.4	588.8	593.4	602.1	605.7	618.7	636.9	653.1	671.5	688.1
7.5°	528.7	527.8	535.0	545.4	555.5	560.5	583.0	609.4	636.5	666.1	691.7
10°	482.1	481.8	488.7	498.9	513.7	519.4	548.4	583.3	621.2	662.0	697.6
12.5°	456.0	457.0	460.2	468.8	482.6	488.2	520.5	561.4	608.3	660.6	706.3
15°	462.4	464.1	458.6	458.2	468.0	472.5	502.7	545.8	599.2	662.9	719.0
17.5°	489.7	490.0	475.5	466.3	472.3	474.6	497.2	537.0	593.8	668.1	734.9
20°	528.3	527.5	501.8	486.5	489.7	490.3	505.0	537.1	593.4	677.1	755.5
22.5°	579.3	573.7	539.1	518.3	517.6	516.6	525.0	548.4	600.1	691.8	780.2
25°	645.9	640.6	593.1	564.6	558.5	556.2	557.4	572.6	613.4	707.5	807.7
27.5°	720.1	710.8	664.9	624.7	612.0	608.8	601.5	606.7	627.9	722.7	840.4
30°	782.1	777.1	737.0	689.4	674.4	669.8	650.5	644.9	648.9	743.3	881.6
32.5°	816.8	813.5	789.2	750.7	736.7	730.3	703.1	691.8	682.5	775.9	937.6
35°	858.9	856.7	842.1	814.1	793.5	786.7	765.6	753.9	729.9	820.7	1009.9
37.5°	912.4	910.1	910.4	887.8	863.2	856.9	843.0	830.6	791.3	879.5	1088.5
40°	972.9	968.5	966.8	965.7	950.1	946.6	939.3	922.5	868.3	949.8	1166.0
42.5°	1064.0	1048.3	1014.6	1027.3	1042.8	1040.9	1046.9	1022.7	953.9	1033.0	1241.6
45°	1151.9	1126.1	1068.0	1070.7	1104.5	1114.7	1159.4	1142.3	1046.7	1124.1	1319.9
47.5°	1191.9	1172.4	1123.0	1123.2	1156.6	1177.9	1275.7	1263.5	1144.2	1227.5	1415.4
50°	1236.7	1217.2	1172.8	1189.5	1218.7	1241.3	1388.0	1381.8	1237.0	1340.8	1529.9
52.5°	1285.6	1252.5	1224.3	1254.1	1295.1	1321.4	1500.5	1483.4	1322.2	1454.8	1661.5
55°	1286.2	1277.2	1298.6	1320.5	1381.8	1414.0	1618.4	1573.1	1391.6	1566.9	1768.6
57.5°	1359.5	1344.8	1390.2	1400.3	1480.4	1516.7	1735.6	1651.3	1462.2	1652.8	1826.4
60°	1456.4	1443.8	1481.0	1507.6	1602.3	1650.9	1860.8	1731.5	1517.7	1717.6	1823.7
62.5°	1623.7	1609.5	1609.1	1646.4	1774.0	1830.5	2001.3	1810.2	1539.7	1730.4	1745.9
65°	1868.8	1846.1	1803.5	1821.2	2011.1	2067.5	2158.3	1867.2	1510.6	1661.6	1545.5
67.5°	2107.2	2106.4	2054.0	2090.4	2324.1	2369.3	2337.1	1872.9	1420.0	1422.1	1189.9
70°	2344.9	2347.9	2339.1	2465.6	2747.0	2794.1	2527.5	1796.9	1216.2	1027.0	712.9
72.5°	2533.2	2532.4	2577.1	2903.4	3295.9	3285.4	2688.0	1566.7	873.2	554.4	340.7
75°	2411.2	2384.6	2517.6	3120.2	3615.9	3564.3	2551.5	1092.9	453.2	252.4	183.4
77.5°	1572.7	1597.9	1793.1	2577.5	3162.8	3100.1	1872.0	509.9	213.5	165.5	133.0
80°	569.5	596.1	839.6	1460.0	2179.0	2168.8	921.8	209.6	144.4	125.0	96.9
82.5°	196.0	205.7	331.2	648.4	1230.3	1276.2	346.8	119.1	105.0	88.7	66.3
85°	76.9	88.0	151.5	312.0	620.6	625.2	140.5	71.2	73.1	58.1	36.4
87.5°	29.2	35.5	72.5	144.9	283.4	260.3	50.3	33.9	41.6	34.5	17.3
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°	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7
2.5°	692.7	695.9	702.7	707.2	712.1	713.5	714.1	715.3	716.6	716.1	716.3
5°	697.0	703.3	714.1	718.7	720.8	718.4	713.7	709.8	707.1	705.6	705.1
7.5°	704.0	712.9	724.5	723.8	718.9	708.0	695.8	686.6	679.0	676.2	674.7
10°	713.4	723.8	731.9	723.1	708.9	690.1	671.8	657.6	646.1	641.7	640.9
12.5°	725.3	735.8	737.4	718.9	695.3	669.6	644.7	625.9	608.8	603.3	602.1
15°	740.7	750.7	741.2	711.4	678.5	644.0	611.7	586.2	568.1	561.4	559.0
17.5°	756.9	766.4	741.9	699.0	656.5	613.5	573.0	546.9	526.3	518.5	517.6
20°	776.3	780.6	738.7	681.3	626.2	574.1	531.5	506.9	495.8	490.3	489.7
22.5°	800.3	795.7	731.4	657.3	587.9	528.6	493.9	482.4	479.6	478.4	478.9
25°	825.7	811.6	720.5	625.9	539.4	483.0	466.3	469.6	473.2	472.8	472.8
27.5°	853.7	827.8	703.9	584.4	485.8	445.7	447.7	459.5	465.0	464.8	464.7
30°	889.6	846.2	682.6	534.4	435.6	419.4	431.5	445.9	453.4	453.1	453.2
32.5°	933.8	866.4	653.7	478.6	399.4	400.0	413.9	428.1	436.8	436.1	436.2
35°	985.4	889.0	614.6	423.6	375.4	384.6	395.6	405.5	413.8	412.7	411.6
37.5°	1041.7	911.1	562.6	374.3	355.8	370.2	379.4	381.1	384.9	382.1	380.1
40°	1095.2	928.1	495.7	334.0	336.1	358.0	363.9	357.2	350.3	349.4	346.7
42.5°	1141.8	933.8	428.0	301.7	315.3	345.1	348.8	334.7	322.4	316.6	314.1
45°	1191.0	935.8	364.9	274.7	295.3	333.7	337.6	318.8	301.4	288.9	284.8
47.5°	1255.4	950.1	315.8	254.7	280.0	326.0	331.7	306.2	283.5	265.7	261.8
50°	1339.6	978.6	275.9	239.4	270.1	321.0	327.4	293.8	268.9	247.3	243.5
52.5°	1433.1	1004.7	243.6	227.0	260.5	312.1	321.9	284.9	255.1	230.3	226.2
55°	1498.6	984.7	217.7	214.1	247.9	299.4	314.3	277.4	235.4	213.8	210.2
57.5°	1511.1	916.2	197.9	200.8	232.8	283.5	302.5	260.8	224.7	206.7	202.8
60°	1476.8	820.8	183.3	188.6	216.6	263.5	280.5	249.0	214.5	199.0	195.8
62.5°	1390.8	723.1	172.4	177.6	201.5	243.2	266.7	236.6	204.1	190.3	187.1
65°	1217.0	607.1	162.0	167.8	187.4	225.6	254.3	225.2	193.8	183.3	180.2
67.5°	918.6	454.7	152.2	157.4	174.9	210.3	240.9	213.8	183.9	177.2	173.5
70°	540.9	284.8	141.1	146.6	161.7	194.4	226.5	201.5	171.5	168.4	163.7
72.5°	251.7	171.3	128.4	133.7	145.2	173.2	208.0	185.3	156.8	150.1	143.7
75°	150.3	125.3	113.4	118.2	126.3	150.6	184.8	168.7	142.9	134.1	127.3
77.5°	112.3	95.8	96.9	102.0	108.5	131.8	163.7	155.8	132.2	125.3	120.8
80°	80.9	72.8	79.0	84.5	91.4	119.8	156.8	144.0	119.5	110.4	106.1
82.5°	54.0	52.3	59.5	65.1	71.8	104.9	147.3	126.1	102.1	90.5	81.0
85°	29.8	31.5	40.0	42.5	48.3	73.8	120.8	101.3	76.9	61.9	59.2
87.5°	12.4	14.5	21.6	20.8	25.7	44.0	79.5	61.1	48.9	36.5	28.4
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)