

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: P595084

Luminaire Tested: **IST-PA1B-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-827-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2683 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

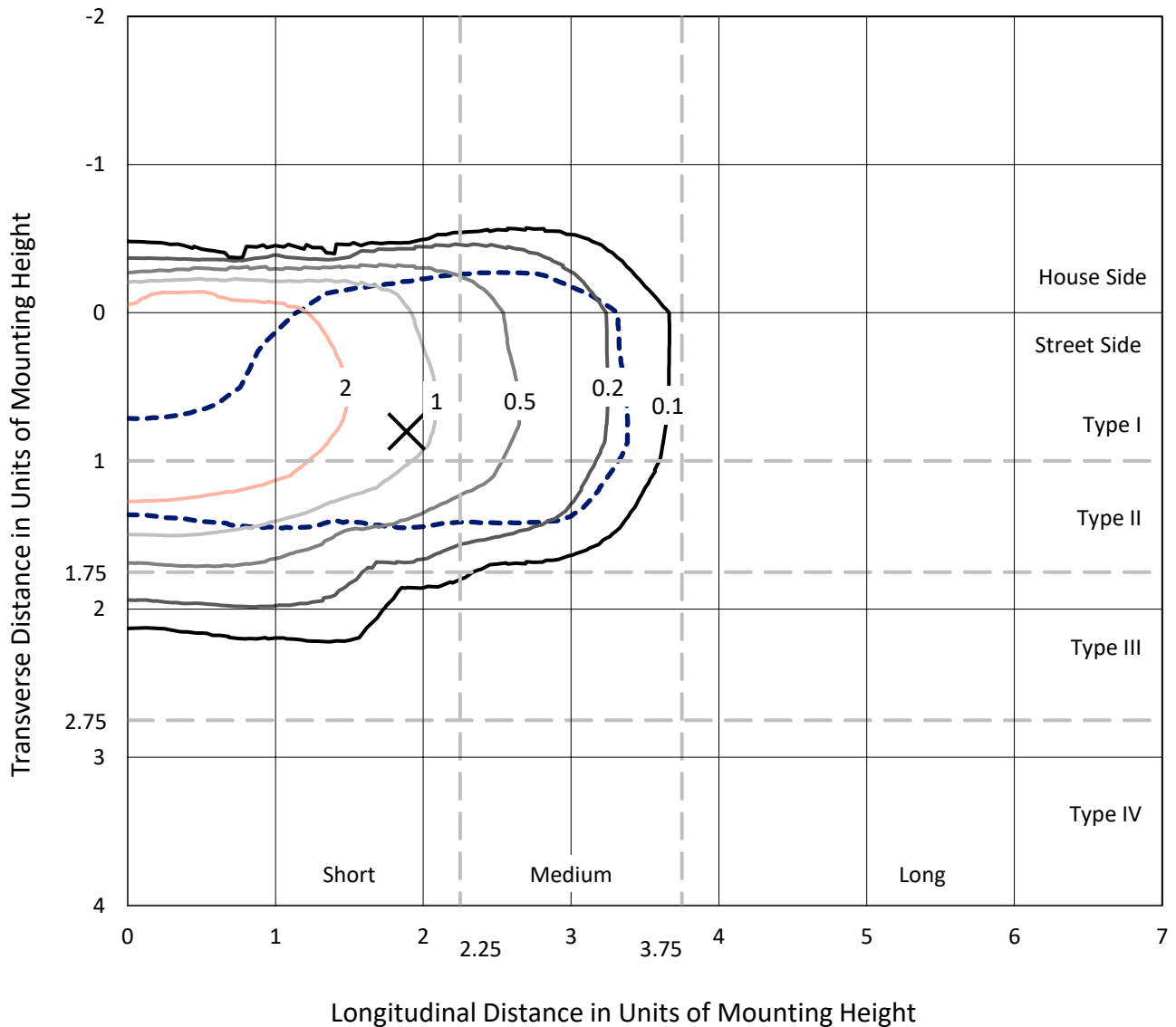
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

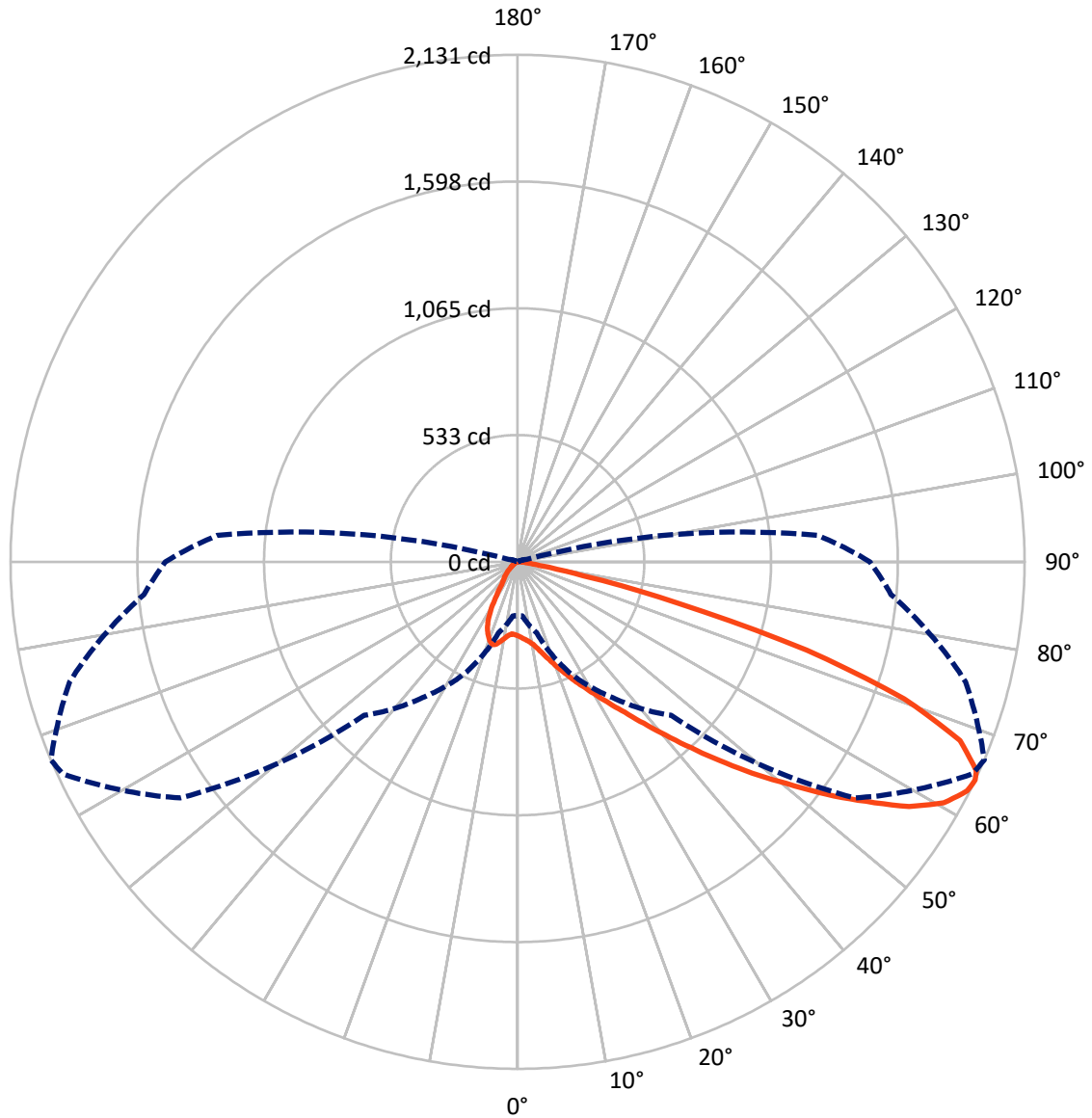
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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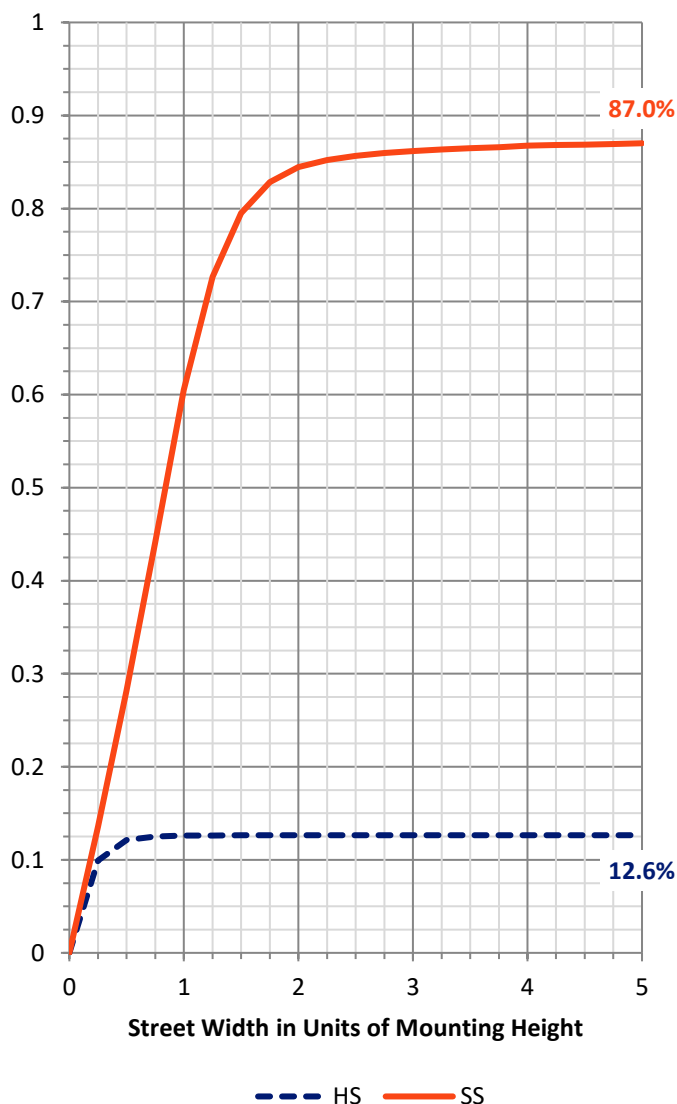
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	343.2	0.0	343.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2339.8	0.0	2339.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	2683.0	0.0	2683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	1.1
10°-20°	87.3	3.3
20°-30°	158.4	5.9
30°-40°	303.4	11.3
40°-50°	559.2	20.8
50°-60°	722.2	26.9
60°-70°	591.6	22.0
70°-80°	217.5	8.1
80°-90°	14.0	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°	2683.0	100.0
0°-180°	2683.0	100.0

Coefficient of Utilization



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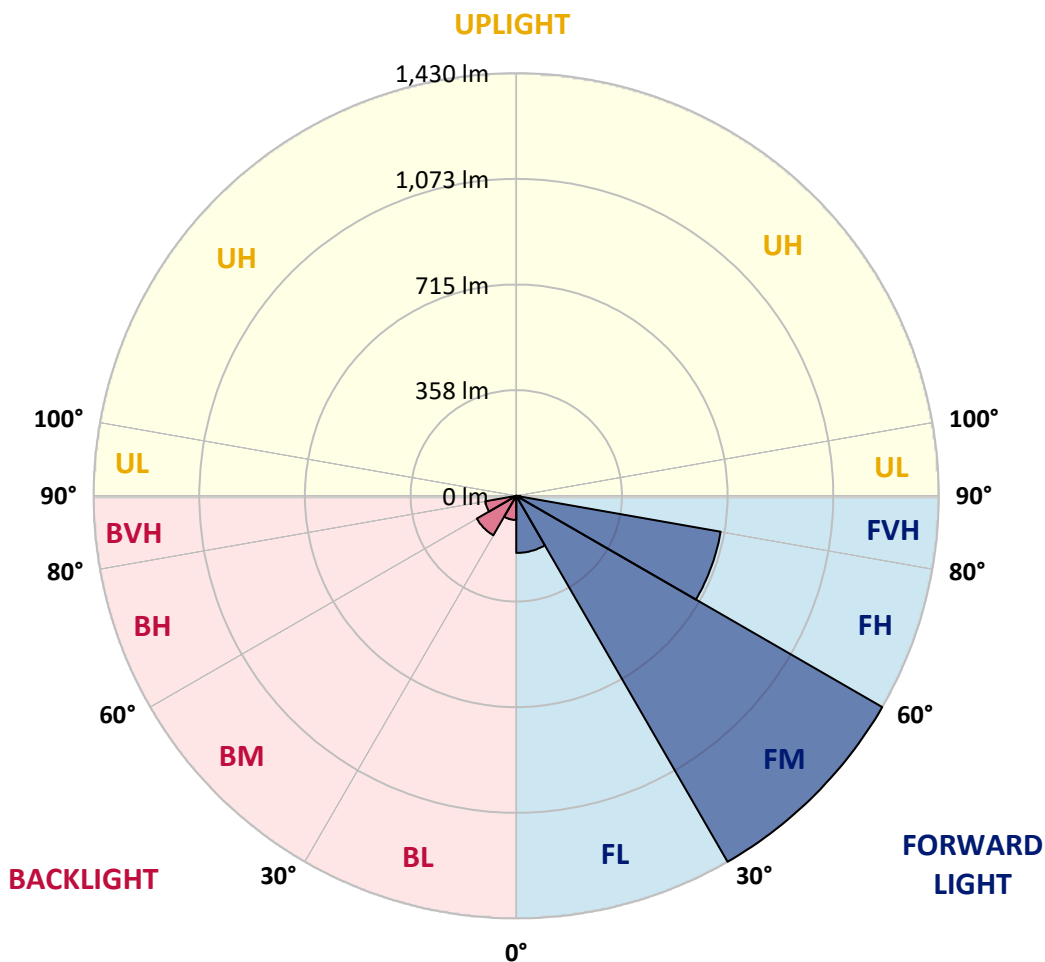
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.4	7.2			
FM (30°-60°)	1430.4	53.3			
FH (60°-80°)	702.5	26.2			G1/1800
FVH (80°-90°)	13.4	0.5			G1/100
BL (0°-30°)	81.8	3.0	B0/110		
BM (30°-60°)	154.3	5.8	B0/220		
BH (60°-80°)	106.5	4.0	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8
2.5°	322.8	322.8	324.7	323.7	323.7	321.9	319.1	320.1	319.1	318.2	315.4
5°	317.3	318.2	319.1	321.0	324.7	326.5	326.5	327.4	327.4	326.5	322.8
7.5°	314.5	316.4	318.2	320.1	324.7	327.4	332.0	337.6	337.6	338.5	334.8
10°	324.7	326.5	329.3	332.0	336.7	341.3	345.0	351.4	351.4	353.3	352.3
12.5°	345.9	345.9	346.8	348.6	355.1	360.6	367.1	372.6	373.5	374.5	371.7
15°	371.7	371.7	372.6	372.6	376.3	384.6	396.6	402.1	401.2	400.3	394.8
17.5°	401.2	401.2	401.2	402.1	404.0	408.6	422.4	433.5	432.6	431.7	420.6
20°	428.9	430.7	432.6	433.5	435.3	439.0	453.8	466.7	469.5	465.8	446.4
22.5°	460.2	461.2	462.1	464.9	469.5	471.3	486.1	505.4	508.2	503.6	477.8
25°	491.6	493.5	496.2	499.9	504.5	513.7	523.9	549.7	552.5	546.9	511.9
27.5°	560.8	559.9	551.6	545.1	546.0	552.5	566.3	594.0	596.8	591.2	546.0
30°	678.8	667.8	652.1	623.5	595.8	598.6	618.0	644.7	649.3	641.9	583.8
32.5°	846.7	835.6	796.9	734.2	673.3	653.0	677.9	703.7	709.3	701.0	628.1
35°	1010.0	1007.2	970.3	894.7	791.4	735.1	741.6	774.8	776.6	766.5	683.5
37.5°	1212.0	1201.8	1151.1	1066.2	944.5	843.9	825.5	856.9	861.5	849.5	750.8
40°	1345.7	1342.0	1311.6	1251.6	1120.6	994.3	927.9	958.3	957.4	939.9	828.3
42.5°	1423.2	1425.0	1423.2	1394.6	1319.9	1175.1	1063.5	1065.3	1068.1	1049.6	917.7
45°	1475.7	1475.7	1478.5	1501.6	1473.0	1390.9	1228.6	1187.1	1190.7	1162.1	1010.9
47.5°	1474.8	1480.4	1495.1	1548.6	1587.3	1592.0	1435.2	1329.1	1327.2	1283.9	1106.8
50°	1375.2	1371.5	1432.4	1552.3	1668.5	1758.0	1630.7	1479.4	1463.8	1410.3	1206.4
52.5°	1151.1	1163.1	1264.5	1440.7	1687.9	1870.5	1799.5	1643.6	1623.3	1535.7	1294.0
55°	955.5	968.5	1067.1	1239.6	1582.7	1910.2	1912.9	1817.9	1777.4	1644.5	1384.4
57.5°	717.6	742.5	888.2	1050.5	1352.2	1811.5	1953.5	1984.9	1940.6	1749.7	1458.2
60°	458.4	473.2	636.4	836.6	1095.7	1553.2	1945.2	2081.7	2057.7	1845.6	1520.0
62.5°	299.8	308.1	420.6	630.0	834.7	1170.5	1846.5	2120.5	2120.5	1910.2	1566.1
64°	226.0	227.8	308.1	511.9	696.4	912.2	1730.3	2108.5	2130.6	1948.9	1575.4
65°	178.9	179.9	240.7	425.2	625.3	748.0	1628.9	2082.6	2118.6	1963.7	1580.9
67.5°	125.4	128.2	155.9	245.3	448.3	431.7	1207.3	1960.9	2005.2	1968.3	1573.5
70°	108.8	112.5	131.0	160.5	320.1	250.9	641.9	1671.3	1723.9	1833.6	1464.7
72.5°	83.0	87.6	109.8	135.6	225.1	169.7	248.1	1187.1	1270.1	1417.6	1209.2
75°	60.0	61.8	81.2	110.7	157.7	131.0	107.0	612.4	696.4	836.6	751.7
77.5°	37.8	40.6	55.3	83.0	141.1	99.6	63.6	223.2	281.3	364.3	328.4
80°	22.1	23.1	33.2	57.2	95.0	73.8	40.6	79.3	95.9	135.6	87.6
82.5°	12.9	13.8	21.2	38.7	61.8	57.2	25.8	40.6	45.2	51.7	18.4
85°	4.6	4.6	14.8	23.1	33.2	28.6	14.8	21.2	23.1	28.6	5.5
87.5°	0.9	0.9	7.4	12.0	12.0	4.6	7.4	9.2	11.1	15.7	1.8
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°	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8
2.5°	314.5	311.8	309.0	305.3	302.5	297.0	294.2	290.5	289.6	287.8	286.8
5°	321.9	317.3	310.8	301.6	296.1	287.8	282.2	276.7	275.8	273.9	273.0
7.5°	332.0	327.4	319.1	309.0	299.8	291.5	285.0	276.7	268.4	261.9	261.9
10°	348.6	343.1	332.0	322.8	311.8	294.2	263.8	236.1	218.6	207.5	203.8
12.5°	368.9	361.6	349.6	338.5	317.3	261.9	214.9	178.9	149.4	135.6	132.8
15°	390.2	383.7	371.7	355.1	291.5	218.6	156.8	101.5	72.9	60.0	61.8
17.5°	413.2	404.0	390.2	356.9	256.4	163.3	83.9	51.7	44.3	42.4	42.4
20°	437.2	425.2	411.4	336.7	211.2	94.1	48.0	38.7	36.0	33.2	34.1
22.5°	463.0	448.3	427.0	306.2	151.3	50.7	36.9	31.4	27.7	26.7	26.7
25°	490.7	469.5	442.7	271.2	87.6	38.7	30.4	24.9	22.1	21.2	20.3
27.5°	520.2	493.5	446.4	225.1	49.8	32.3	24.0	19.4	16.6	15.7	15.7
30°	546.9	517.4	438.1	166.9	37.8	26.7	19.4	14.8	12.9	12.9	12.9
32.5°	582.9	544.2	412.3	104.2	30.4	21.2	14.8	12.0	10.1	10.1	10.1
35°	630.0	583.8	386.5	55.3	24.9	17.5	12.0	9.2	8.3	8.3	8.3
37.5°	694.5	636.4	363.4	35.0	20.3	13.8	9.2	7.4	6.5	6.5	6.5
40°	760.9	699.1	331.1	26.7	16.6	11.1	7.4	5.5	4.6	4.6	5.5
42.5°	843.9	772.0	294.2	23.1	13.8	9.2	5.5	3.7	2.8	3.7	3.7
45°	927.9	848.6	242.6	19.4	12.0	7.4	3.7	1.8	1.8	2.8	2.8
47.5°	1014.6	929.7	188.2	16.6	10.1	5.5	2.8	0.9	0.9	1.8	1.8
50°	1104.0	1010.0	140.2	14.8	8.3	4.6	1.8	0.9	0.0	0.9	0.9
52.5°	1193.5	1087.4	108.8	12.9	7.4	3.7	0.9	0.0	0.0	0.0	0.9
55°	1276.5	1157.5	86.7	11.1	6.5	2.8	0.9	0.0	0.0	0.0	0.0
57.5°	1346.6	1209.2	69.2	10.1	5.5	1.8	0.9	0.0	0.0	0.0	0.0
60°	1413.0	1249.8	53.5	8.3	4.6	1.8	0.9	0.0	0.0	0.0	0.0
62.5°	1460.1	1265.5	43.4	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0
64°	1480.4	1267.3	37.8	6.5	3.7	1.8	0.9	0.0	0.0	0.0	0.0
65°	1492.3	1261.8	35.0	6.5	3.7	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	1495.1	1231.3	26.7	5.5	2.8	0.9	0.9	0.0	0.0	0.0	0.0
70°	1413.9	1125.3	19.4	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1181.5	859.6	12.9	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	737.9	371.7	7.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	305.3	112.5	4.6	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	70.1	26.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	16.6	4.6	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.7	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.9	0.9	0.9	0.9	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)