

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: P595089

Luminaire Tested: **IST-PA1B-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3765 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

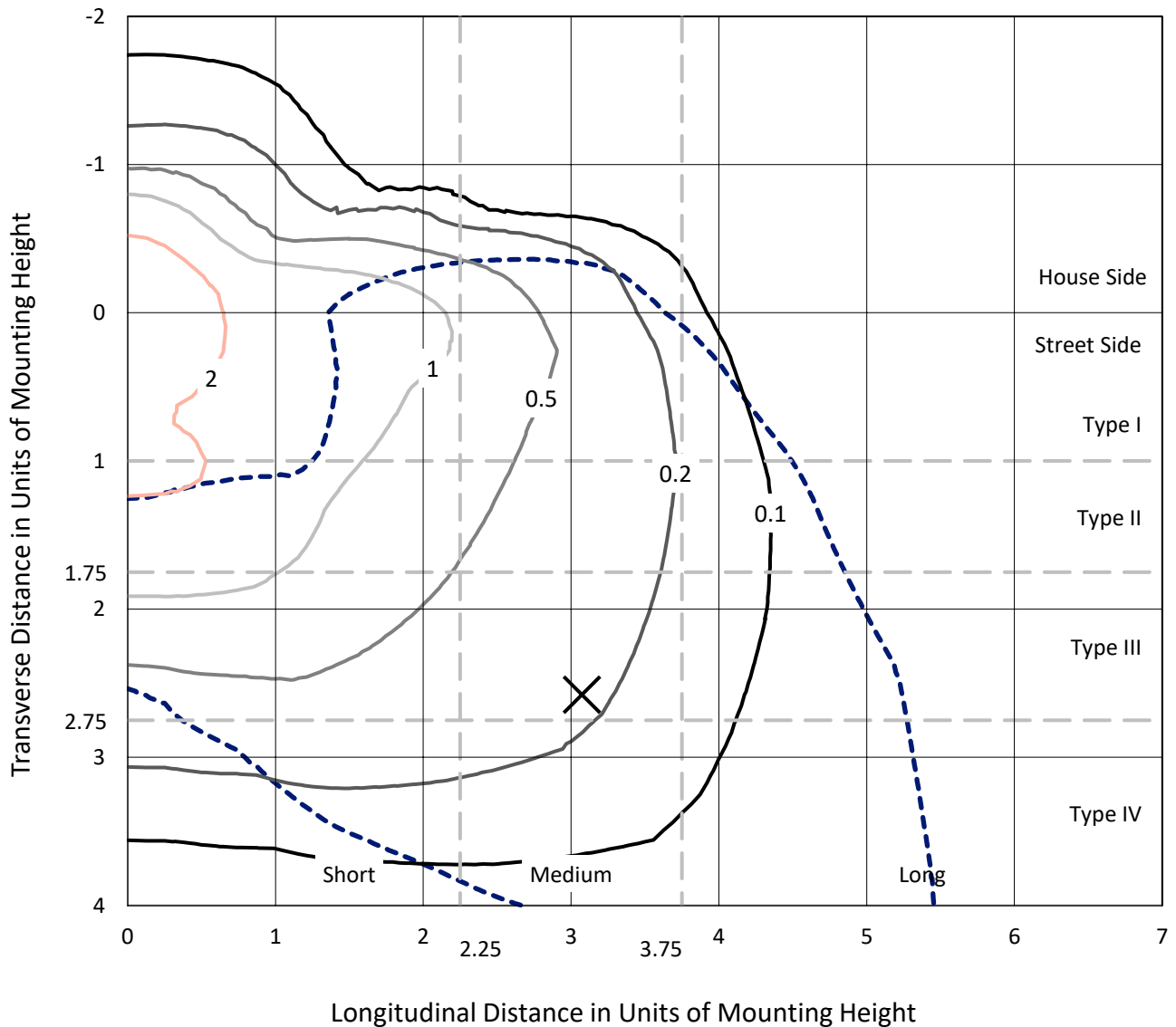
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

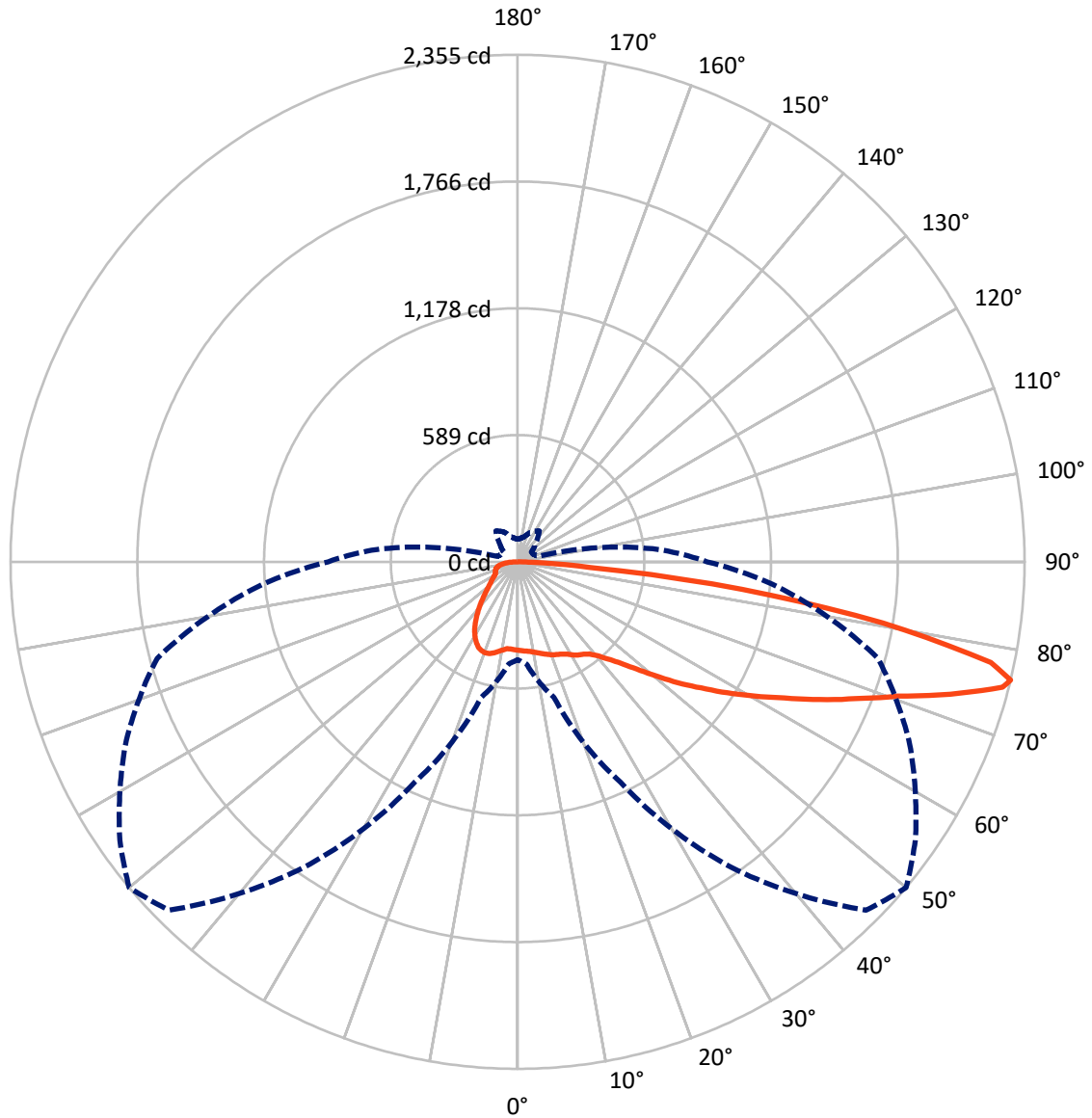
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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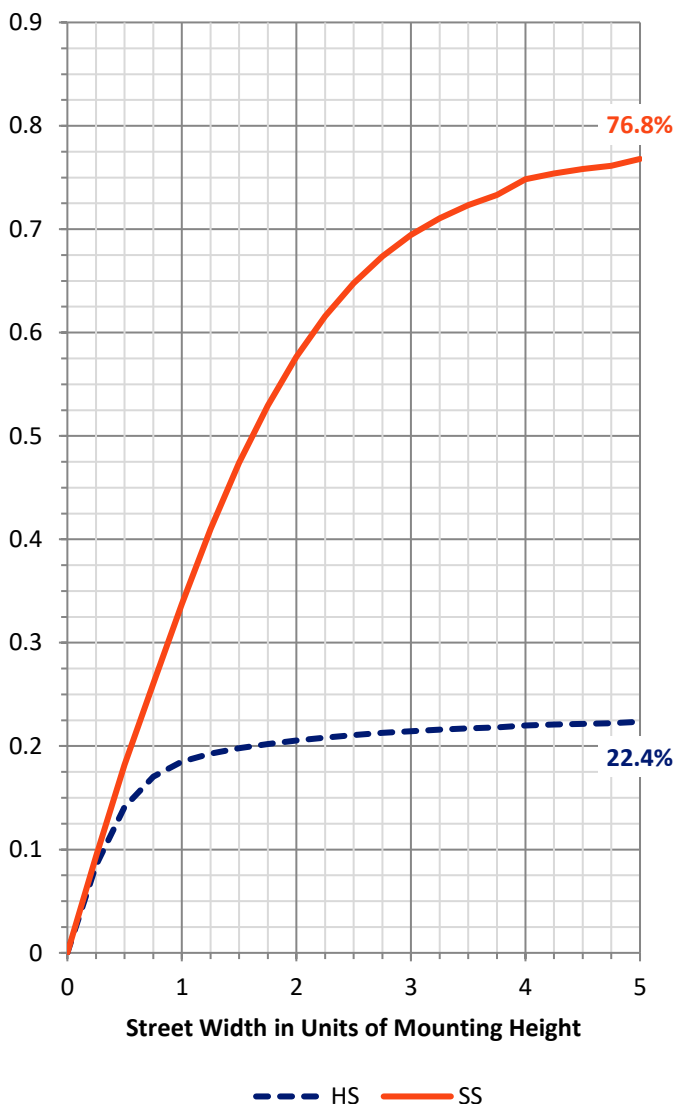
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.3	0.0	861.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2903.7	0.0	2903.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	3765.0	0.0	3765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.1
10°-20°	125.3	3.3
20°-30°	211.6	5.6
30°-40°	290.1	7.7
40°-50°	427.2	11.3
50°-60°	672.1	17.9
60°-70°	967.4	25.7
70°-80°	879.6	23.4
80°-90°	151.9	4.0
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°	3765.0	100.0
0°-180°	3765.0	100.0

Coefficient of Utilization

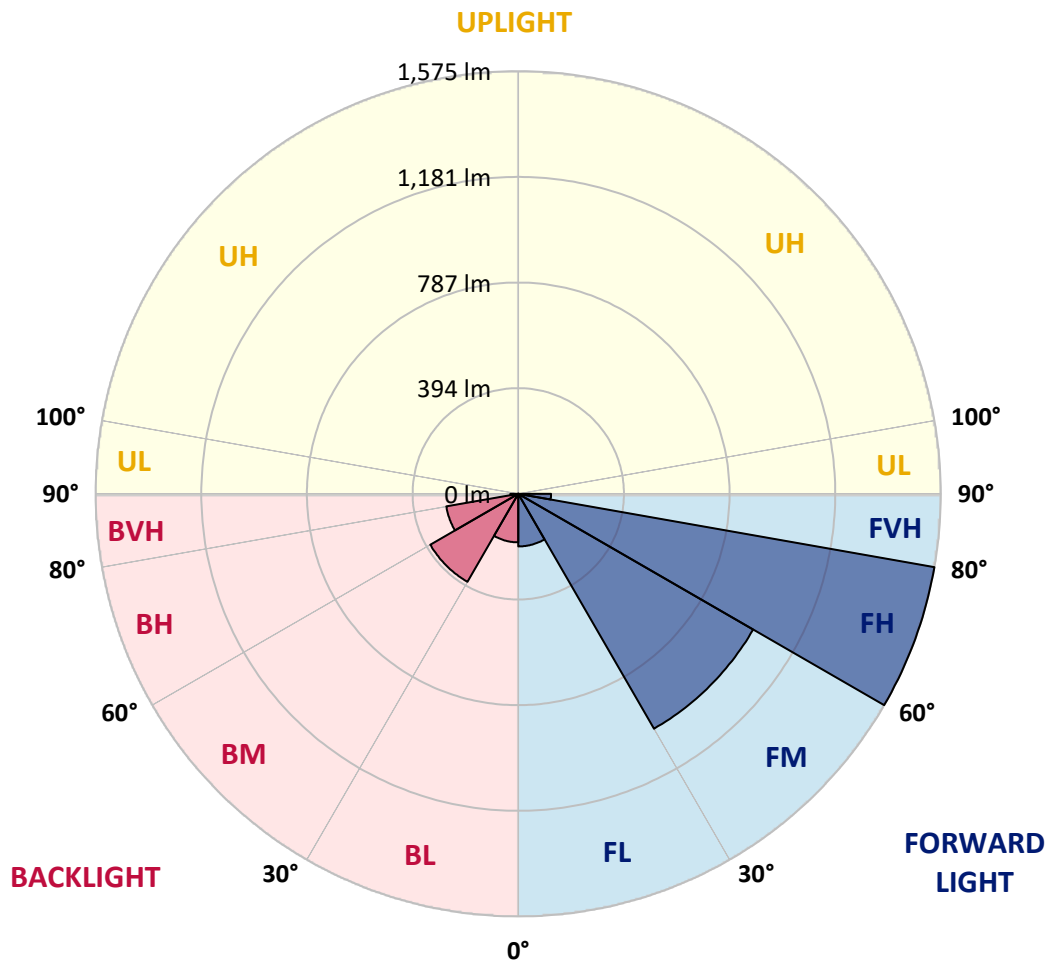


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.0	5.2			
FM (30°-60°)	1010.8	26.8			
FH (60°-80°)	1574.7	41.8			G1/1800
FVH (80°-90°)	122.2	3.2			G2/225
BL (0°-30°)	180.8	4.8	B1/500		
BM (30°-60°)	378.5	10.1	B1/1000		
BH (60°-80°)	272.3	7.2	B1/500		G1/500
BVH (80°-90°)	29.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4
2.5°	419.6	419.6	420.5	418.7	418.7	414.1	414.1	413.1	411.3	410.4	408.5
5°	435.3	435.3	432.5	427.9	425.1	419.6	416.8	415.0	411.3	406.7	402.1
7.5°	451.9	450.0	448.2	440.8	435.3	425.1	420.5	417.8	410.4	403.9	401.2
10°	469.4	466.6	462.0	452.8	444.5	432.5	427.0	423.3	415.0	409.5	403.0
12.5°	479.5	479.5	474.0	462.9	451.9	437.1	434.4	429.7	421.4	414.1	407.6
15°	489.7	490.6	485.1	472.2	459.3	448.2	443.6	440.8	431.6	420.5	412.2
17.5°	499.8	498.9	493.4	478.6	464.8	454.6	451.9	448.2	439.0	428.8	420.5
20°	507.2	505.4	503.5	485.1	471.2	464.8	461.1	458.3	449.1	438.0	427.0
22.5°	509.1	510.9	509.1	486.9	475.9	468.5	467.6	464.8	457.4	447.3	436.2
25°	510.0	510.9	513.7	492.5	482.3	476.8	474.9	473.1	467.6	459.3	444.5
27.5°	514.6	515.5	515.5	496.1	490.6	486.9	485.1	485.1	482.3	472.2	457.4
30°	515.5	516.4	518.3	505.4	503.5	500.8	501.7	500.8	496.1	485.1	468.5
32.5°	522.0	522.9	527.5	510.9	512.7	515.5	516.4	515.5	506.3	497.1	483.2
35°	543.2	542.3	545.9	524.7	522.9	523.8	526.6	525.7	522.0	513.7	504.4
37.5°	611.4	611.4	601.3	557.0	543.2	541.3	543.2	547.8	548.7	541.3	534.0
40°	731.3	724.8	719.3	623.4	579.1	568.1	573.6	576.4	583.7	583.7	583.7
42.5°	854.9	855.8	854.0	726.7	643.7	616.0	616.9	623.4	639.1	641.8	650.1
45°	964.6	971.1	984.9	846.6	738.7	676.9	670.4	676.9	699.0	717.5	738.7
47.5°	1050.4	1043.0	1073.4	972.0	847.5	759.9	743.3	745.1	775.6	805.1	838.3
50°	1124.2	1126.0	1139.8	1100.2	984.9	854.0	831.8	828.1	871.5	902.8	959.1
52.5°	1207.2	1201.6	1221.9	1212.7	1118.6	969.2	934.2	923.1	970.1	1014.4	1075.3
55°	1246.8	1252.3	1293.8	1316.9	1245.0	1072.5	1033.8	1037.5	1087.3	1134.3	1219.1
57.5°	1316.9	1322.4	1370.4	1418.3	1357.5	1182.3	1148.1	1148.1	1204.4	1257.0	1387.9
60°	1412.8	1413.7	1462.6	1545.6	1456.1	1288.3	1266.2	1265.3	1326.1	1387.0	1587.1
62.5°	1455.2	1466.3	1539.1	1647.0	1585.3	1418.3	1392.5	1399.9	1454.3	1525.3	1809.3
65°	1398.0	1422.0	1574.2	1715.3	1700.5	1553.9	1543.8	1553.9	1587.1	1663.6	2044.5
67.5°	1209.0	1241.3	1509.6	1761.4	1792.7	1710.7	1695.9	1694.1	1715.3	1801.0	2193.0
70°	1111.2	1130.6	1339.0	1778.9	1866.5	1869.3	1869.3	1857.3	1854.5	1917.2	2206.8
72.5°	914.8	935.1	1129.7	1681.2	1936.6	2081.4	2102.6	2058.3	1990.1	1977.2	1975.3
75°	652.0	666.7	834.6	1322.4	1847.2	2285.2	2327.6	2241.9	2051.9	1846.2	1440.5
76°	454.6	475.9	652.0	1129.7	1734.6	2288.9	2355.3	2255.7	2010.4	1733.7	1186.9
77.5°	230.5	237.9	377.2	759.0	1451.5	2183.8	2248.3	2136.7	1829.6	1400.8	753.4
80°	87.6	90.4	134.6	276.7	796.8	1695.9	1720.8	1570.5	1210.8	598.5	271.1
82.5°	46.1	48.0	75.6	136.5	327.4	932.3	1052.2	876.1	474.9	179.8	79.3
85°	23.1	24.9	44.3	83.0	162.3	291.4	337.5	319.1	157.7	68.2	29.5
87.5°	9.2	11.1	22.1	36.9	65.5	57.2	63.6	82.1	50.7	32.3	10.1
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°	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4	410.4
2.5°	408.5	407.6	408.5	407.6	408.5	408.5	409.5	407.6	407.6	409.5	406.7
5°	402.1	401.2	402.1	403.9	404.8	406.7	410.4	409.5	411.3	413.1	414.1
7.5°	399.3	398.4	401.2	402.1	404.8	408.5	414.1	417.8	419.6	423.3	421.4
10°	402.1	402.1	405.8	408.5	413.1	417.8	422.4	426.1	430.7	433.4	432.5
12.5°	406.7	405.8	412.2	415.9	422.4	427.0	430.7	432.5	436.2	439.9	439.0
15°	411.3	412.2	421.4	428.8	436.2	438.0	439.0	437.1	439.0	440.8	440.8
17.5°	420.5	421.4	431.6	439.9	446.3	444.5	439.9	435.3	435.3	436.2	437.1
20°	427.9	429.7	441.7	449.1	452.8	445.4	438.0	432.5	429.7	430.7	429.7
22.5°	436.2	439.9	451.9	455.6	450.0	440.8	431.6	424.2	424.2	425.1	425.1
25°	446.3	448.2	456.5	454.6	444.5	430.7	423.3	420.5	419.6	420.5	421.4
27.5°	455.6	456.5	461.1	448.2	428.8	414.1	411.3	412.2	413.1	414.1	415.0
30°	467.6	469.4	464.8	439.0	409.5	392.9	392.9	398.4	400.2	403.0	402.1
32.5°	482.3	484.2	470.3	427.0	384.6	368.0	368.9	377.2	382.7	384.6	385.5
35°	507.2	503.5	474.0	410.4	357.8	337.5	338.4	348.6	356.0	358.7	356.9
37.5°	537.6	536.7	479.5	389.2	324.6	306.2	307.1	311.7	319.1	320.0	320.9
40°	588.4	581.0	488.8	361.5	291.4	273.9	272.0	274.8	273.9	275.7	276.7
42.5°	661.2	641.8	500.8	330.1	261.9	243.5	241.6	237.0	231.5	225.9	223.2
45°	747.0	716.5	515.5	297.9	231.5	214.9	210.3	204.7	193.7	181.7	178.0
47.5°	857.6	799.5	532.1	265.6	202.9	190.0	186.3	178.0	165.1	151.2	148.5
50°	971.1	897.3	548.7	238.8	179.8	172.5	168.8	160.5	143.9	131.0	128.2
52.5°	1102.9	994.1	566.2	214.9	159.5	159.5	156.8	143.9	128.2	116.2	114.4
55°	1255.1	1093.7	593.9	191.8	144.8	148.5	144.8	131.9	117.1	108.8	107.9
57.5°	1436.8	1220.1	628.9	166.9	131.9	134.6	134.6	125.4	115.3	109.7	108.8
60°	1619.4	1348.2	651.1	148.5	121.7	124.5	130.0	125.4	119.0	116.2	115.3
62.5°	1794.6	1479.2	613.3	132.8	111.6	119.9	133.7	134.6	128.2	129.1	129.1
65°	1925.5	1578.8	496.1	119.0	105.1	122.7	144.8	145.7	134.6	131.9	131.0
67.5°	1970.7	1606.5	333.8	109.7	101.4	124.5	157.7	154.0	134.6	129.1	126.3
70°	1885.0	1505.0	216.7	101.4	95.9	122.7	167.8	158.6	133.7	125.4	121.7
72.5°	1580.6	1283.7	144.8	94.1	90.4	120.8	174.3	158.6	131.0	119.0	115.3
75°	1097.4	877.0	107.9	84.8	82.1	118.0	176.1	155.9	124.5	111.6	108.8
76°	880.7	657.5	97.8	81.2	78.4	116.2	175.2	153.1	119.9	107.9	105.1
77.5°	556.1	378.1	82.1	74.7	72.9	112.5	171.5	146.6	113.4	101.4	98.7
80°	194.6	138.3	62.7	60.9	61.8	104.2	161.4	133.7	100.5	89.5	85.8
82.5°	77.5	63.6	47.0	47.0	48.9	89.5	145.7	118.0	87.6	73.8	68.2
85°	30.4	27.7	33.2	33.2	35.0	72.9	121.7	92.2	59.9	46.1	44.3
87.5°	9.2	12.9	14.8	15.7	16.6	36.9	69.2	40.6	26.7	19.4	15.7
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)