

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: P594995

Luminaire Tested: **IST-PA1A-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-827-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

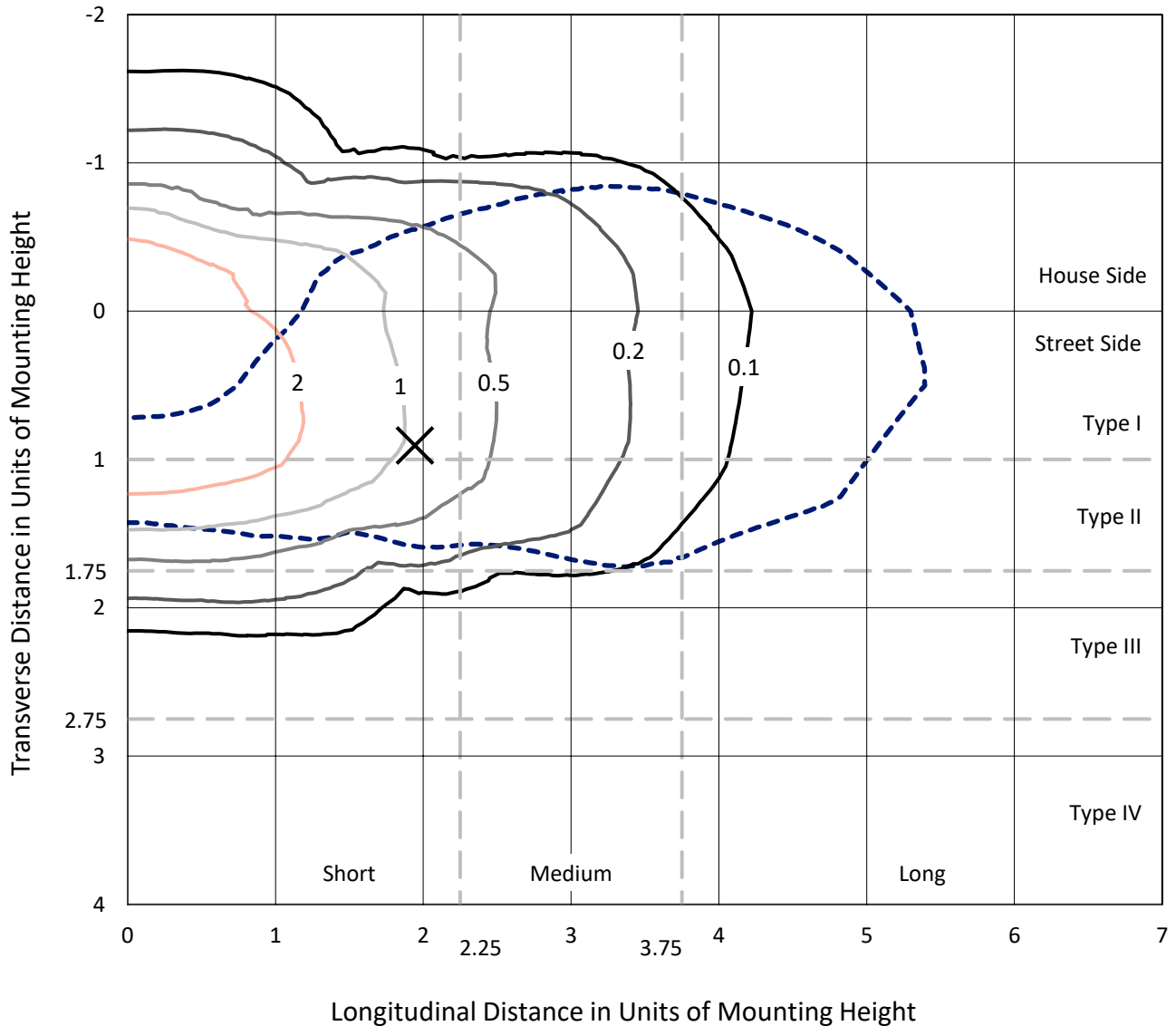
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

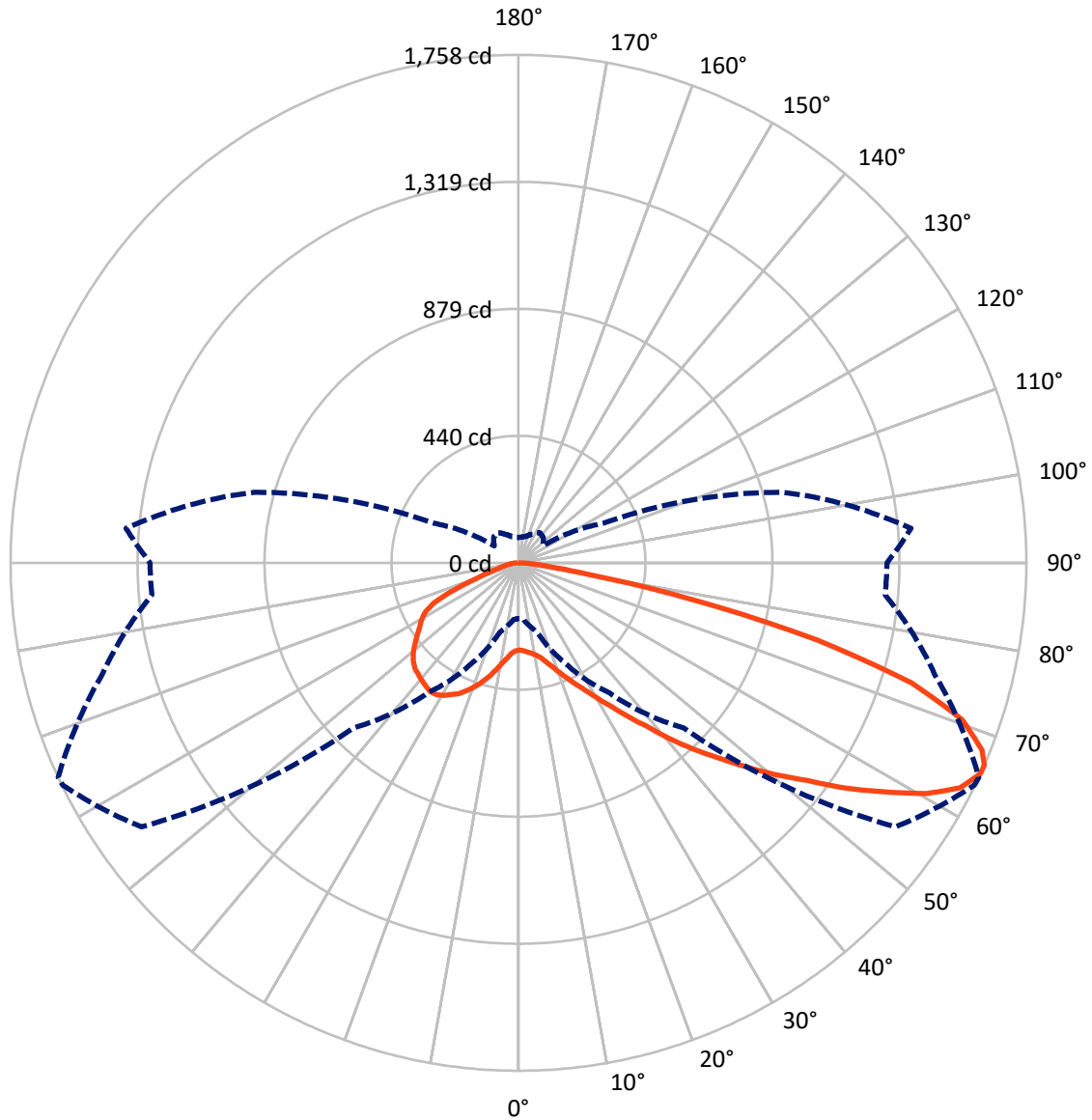
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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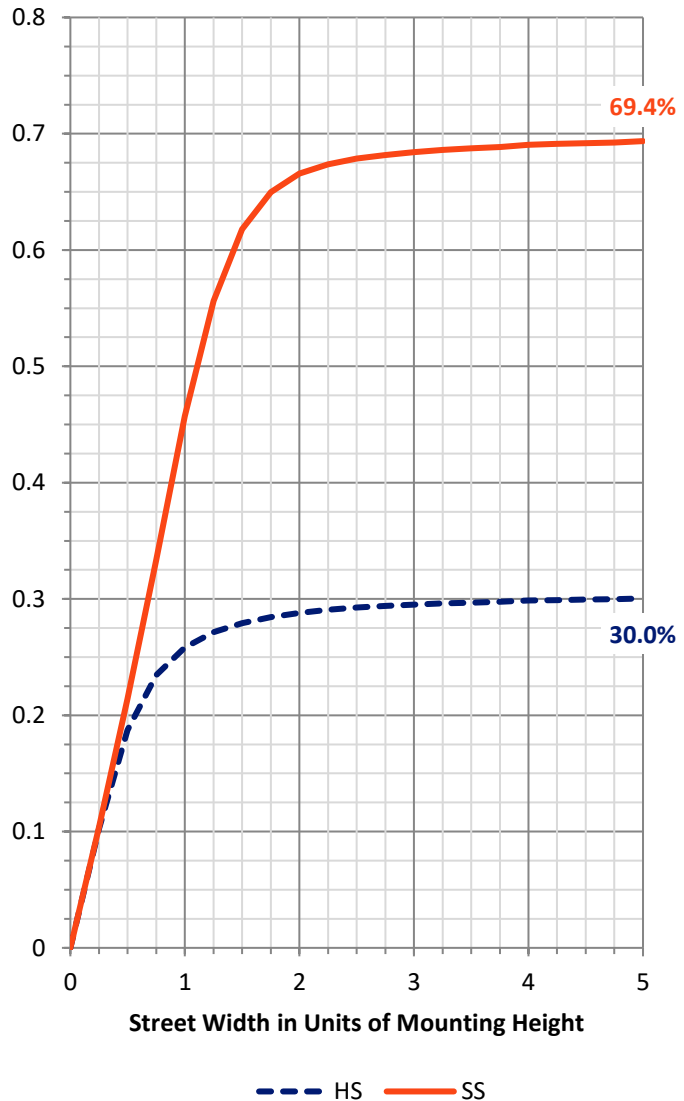
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.3	0.0	920.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2110.7	0.0	2110.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	3031.0	0.0	3031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	1.0
10°-20°	107.4	3.5
20°-30°	210.4	6.9
30°-40°	343.8	11.3
40°-50°	545.6	18.0
50°-60°	701.8	23.2
60°-70°	632.9	20.9
70°-80°	392.5	13.0
80°-90°	65.8	2.2
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°	3031.0	100.0
0°-180°	3031.0	100.0

Coefficient of Utilization

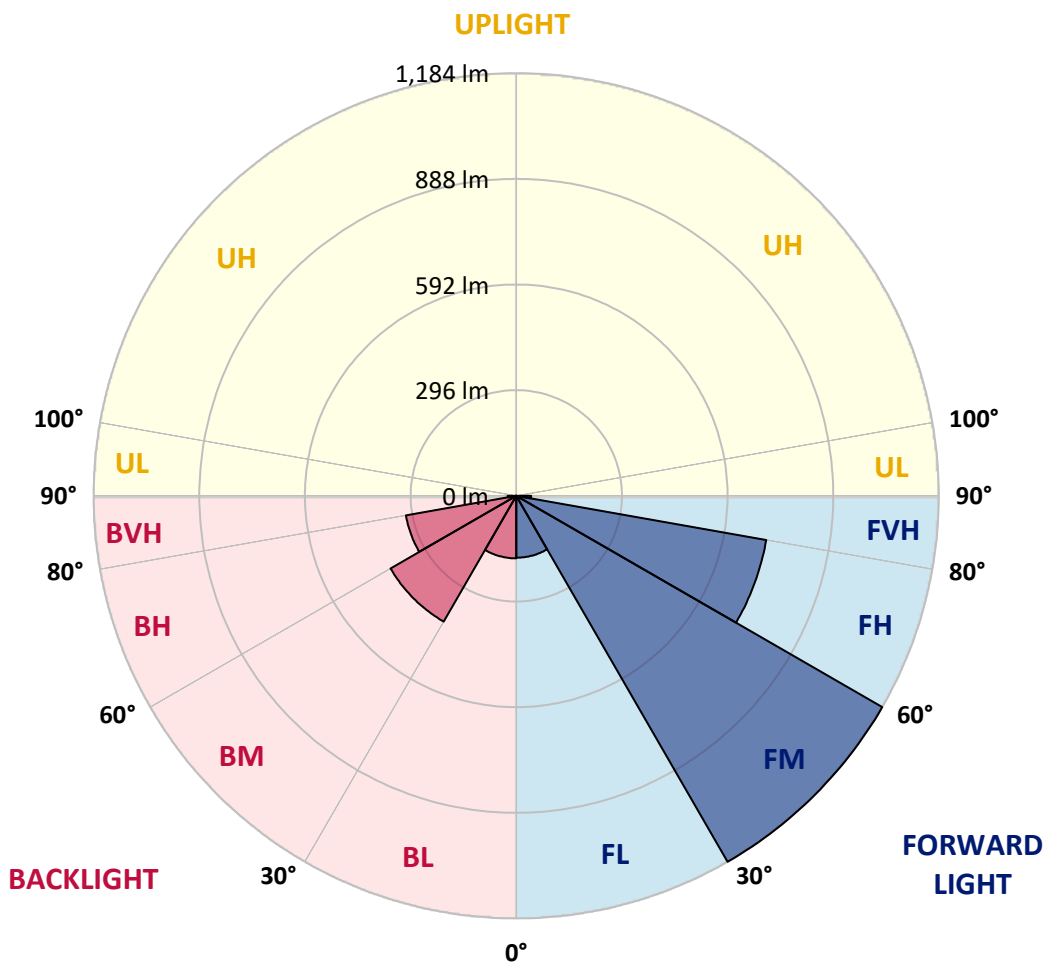


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.3	5.7			
FM (30°-60°)	1184.3	39.1			
FH (60°-80°)	711.4	23.5			G1/1800
FVH (80°-90°)	41.6	1.4			G1/100
BL (0°-30°)	175.3	5.8	B1/500		
BM (30°-60°)	406.9	13.4	B1/1000		
BH (60°-80°)	314.0	10.4	B1/500		G1/500
BVH (80°-90°)	24.2	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	302.9	303.6	304.3	302.9	304.3	305.1	303.6	303.6	304.3	302.9	302.9
5°	300.6	301.4	302.9	303.6	306.5	308.0	308.7	308.7	309.5	308.7	309.5
7.5°	294.8	294.8	297.7	299.2	303.6	308.7	311.7	316.1	316.1	316.8	319.0
10°	300.6	300.6	302.9	305.1	308.7	313.1	317.6	322.7	324.2	329.3	332.3
12.5°	309.5	310.9	313.9	316.8	321.2	326.4	330.1	335.2	335.9	341.1	347.0
15°	324.2	325.6	327.1	330.8	336.7	343.3	349.9	353.6	355.0	358.0	362.4
17.5°	346.2	347.7	348.4	350.6	355.0	363.9	373.4	376.4	377.8	377.8	381.5
20°	383.7	383.0	381.5	377.1	377.1	385.2	398.4	403.6	405.0	402.1	399.9
22.5°	427.1	426.3	420.5	415.3	411.6	413.1	426.3	435.2	434.4	428.6	419.7
25°	483.7	485.2	475.6	462.4	451.3	448.4	456.5	465.3	466.8	455.8	441.0
27.5°	551.3	549.1	544.0	522.6	501.3	488.1	492.5	502.1	502.8	491.0	467.5
30°	630.7	627.0	613.8	591.7	558.7	540.3	536.6	544.7	546.9	527.1	493.2
32.5°	718.9	715.2	698.3	664.5	628.5	597.6	585.9	596.9	595.4	572.6	525.6
35°	825.5	824.8	793.9	752.0	706.4	665.2	649.1	649.1	653.5	619.7	566.7
37.5°	968.1	974.0	928.4	863.0	799.0	743.9	716.7	715.2	716.0	679.2	613.1
40°	1096.7	1094.5	1068.1	1007.1	913.7	843.1	802.7	793.9	796.1	749.0	673.3
42.5°	1171.0	1173.2	1166.6	1140.1	1058.5	969.6	900.5	877.0	877.7	818.9	730.7
45°	1217.3	1219.5	1218.8	1232.0	1199.7	1115.9	1017.4	963.0	960.0	898.3	798.3
47.5°	1243.8	1245.2	1254.8	1282.0	1308.4	1289.3	1146.7	1058.5	1052.6	972.5	865.9
50°	1214.4	1215.1	1253.3	1318.0	1382.7	1440.8	1279.0	1153.3	1151.9	1054.8	932.1
52.5°	1060.0	1073.2	1157.8	1293.0	1437.8	1548.1	1431.9	1265.1	1252.6	1132.8	998.2
55°	865.2	871.1	968.1	1140.1	1427.5	1614.2	1547.3	1385.6	1376.8	1219.5	1062.9
57.5°	675.5	681.4	796.8	940.2	1270.2	1610.6	1628.9	1515.7	1495.9	1295.2	1127.6
60°	435.9	454.3	588.1	764.5	1028.4	1498.8	1670.1	1640.7	1622.3	1370.2	1182.7
62.5°	296.2	299.2	383.0	566.7	769.6	1218.0	1667.2	1717.9	1714.9	1445.2	1237.9
65°	192.6	197.0	247.7	383.7	550.6	808.6	1593.7	1755.4	1758.3	1491.5	1273.9
66°	163.2	166.1	205.1	322.7	482.2	641.0	1529.0	1752.4	1758.3	1512.8	1284.9
67.5°	141.9	144.1	163.9	238.2	394.0	460.9	1360.6	1713.5	1730.4	1532.6	1298.9
70°	122.0	125.0	143.3	162.5	281.5	269.0	861.5	1613.5	1630.4	1542.2	1307.7
72.5°	100.7	102.9	121.3	147.0	204.4	180.8	380.0	1381.2	1423.9	1506.9	1293.7
75°	79.4	80.9	97.8	122.8	156.6	141.1	165.4	1012.9	1066.6	1328.3	1239.3
77.5°	61.7	62.5	75.7	95.6	143.3	109.5	102.2	493.2	624.1	1026.2	1091.6
80°	42.6	44.1	55.9	72.0	105.1	86.7	68.4	192.6	244.8	681.4	827.7
82.5°	27.9	28.7	38.2	54.4	69.8	83.1	44.8	93.4	102.9	313.9	358.7
85°	19.1	19.1	27.2	33.8	47.8	55.1	29.4	49.3	53.7	119.1	43.4
87.5°	9.6	9.6	13.2	17.6	22.8	21.3	17.6	17.6	17.6	39.0	12.5
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°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	303.6	303.6	304.3	305.1	305.8	305.8	306.5	306.5	305.8	306.5	307.3
5°	310.2	310.9	312.4	314.6	318.3	322.0	325.6	327.8	330.1	330.8	329.3
7.5°	320.5	322.0	327.1	333.0	338.9	347.7	352.8	355.8	357.2	358.7	357.2
10°	333.7	336.7	344.0	354.3	364.6	375.6	381.5	385.9	386.7	388.1	386.7
12.5°	349.2	354.3	365.3	380.0	392.5	403.6	408.0	405.0	398.4	395.5	394.7
15°	367.5	372.7	388.1	406.5	421.2	426.3	419.7	410.2	402.8	402.1	401.4
17.5°	383.7	391.1	412.4	431.5	445.5	440.3	422.7	416.8	414.6	417.5	416.8
20°	404.3	410.2	431.5	455.0	462.4	442.5	430.0	426.3	424.1	424.1	422.7
22.5°	421.2	425.6	451.3	477.1	472.7	444.0	435.2	427.8	420.5	419.7	417.5
25°	441.0	442.5	469.7	497.7	474.1	445.5	430.0	417.5	410.2	408.0	408.7
27.5°	459.4	463.1	486.6	511.6	470.5	437.4	412.4	396.2	385.2	384.4	384.4
30°	482.9	482.9	504.3	527.1	462.4	416.8	383.7	360.2	351.4	350.6	349.2
32.5°	509.4	505.0	525.6	538.1	444.7	388.9	344.8	318.3	304.3	301.4	299.2
35°	546.2	536.6	551.3	540.3	427.1	349.2	295.5	265.4	255.1	250.7	250.7
37.5°	588.8	574.8	590.3	533.7	399.9	302.9	244.0	221.3	210.2	203.6	205.8
40°	638.8	621.1	630.0	526.3	370.5	251.4	201.4	187.4	174.2	165.4	165.4
42.5°	697.6	668.2	674.8	519.0	328.6	206.6	174.2	164.7	154.4	145.5	147.8
45°	754.2	725.5	718.9	511.6	284.5	176.4	163.2	156.6	147.0	136.7	136.7
47.5°	819.6	782.9	757.9	498.4	241.1	166.9	166.1	156.6	138.2	123.5	122.0
50°	881.4	847.5	793.2	478.5	216.8	174.9	165.4	142.6	125.0	115.4	114.7
52.5°	946.8	911.5	821.8	454.3	204.4	171.3	152.2	130.8	117.6	108.1	105.9
55°	1011.5	993.1	847.5	430.8	184.5	159.5	141.1	123.5	109.5	100.7	99.2
57.5°	1085.0	1077.6	869.6	407.2	153.6	144.8	133.0	118.3	105.1	98.5	97.8
60°	1148.9	1174.7	896.1	389.6	130.8	133.8	129.4	117.6	108.1	100.7	100.7
62.5°	1216.6	1268.0	919.6	366.8	113.9	127.2	130.1	116.9	104.4	97.8	97.8
65°	1275.4	1363.6	943.8	324.9	102.2	122.0	127.9	108.8	94.1	88.9	87.5
66°	1300.4	1390.8	951.2	299.2	97.8	118.3	124.2	104.4	89.7	85.3	84.5
67.5°	1329.8	1433.4	960.0	244.0	91.2	110.3	116.1	97.8	82.3	79.4	77.9
70°	1370.9	1442.2	954.9	159.5	79.4	94.8	103.6	87.5	73.5	71.3	69.1
72.5°	1375.3	1382.0	903.4	100.7	69.1	81.6	91.2	78.7	64.7	62.5	61.0
75°	1302.6	1224.6	764.5	72.0	61.0	72.0	80.1	68.4	53.7	50.7	49.3
77.5°	1112.2	971.8	549.8	53.7	52.9	61.7	66.9	59.5	44.8	42.6	41.9
80°	780.7	659.4	275.7	40.4	41.9	51.5	55.9	50.0	37.5	34.5	33.1
82.5°	316.1	280.1	94.8	30.1	31.6	39.0	47.8	41.2	28.7	25.0	22.1
85°	36.0	61.0	41.2	20.6	21.3	26.5	32.3	25.0	16.9	14.0	11.8
87.5°	7.4	13.2	14.7	8.1	7.4	10.3	14.7	8.8	5.9	2.2	2.9
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)