

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: STREETWORKS

Report Number: P177327

Luminaire Tested: **VAL-E02-LED-E-U-WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E02-LED-E-U-WQ-7030
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5648.3 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 52.1
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

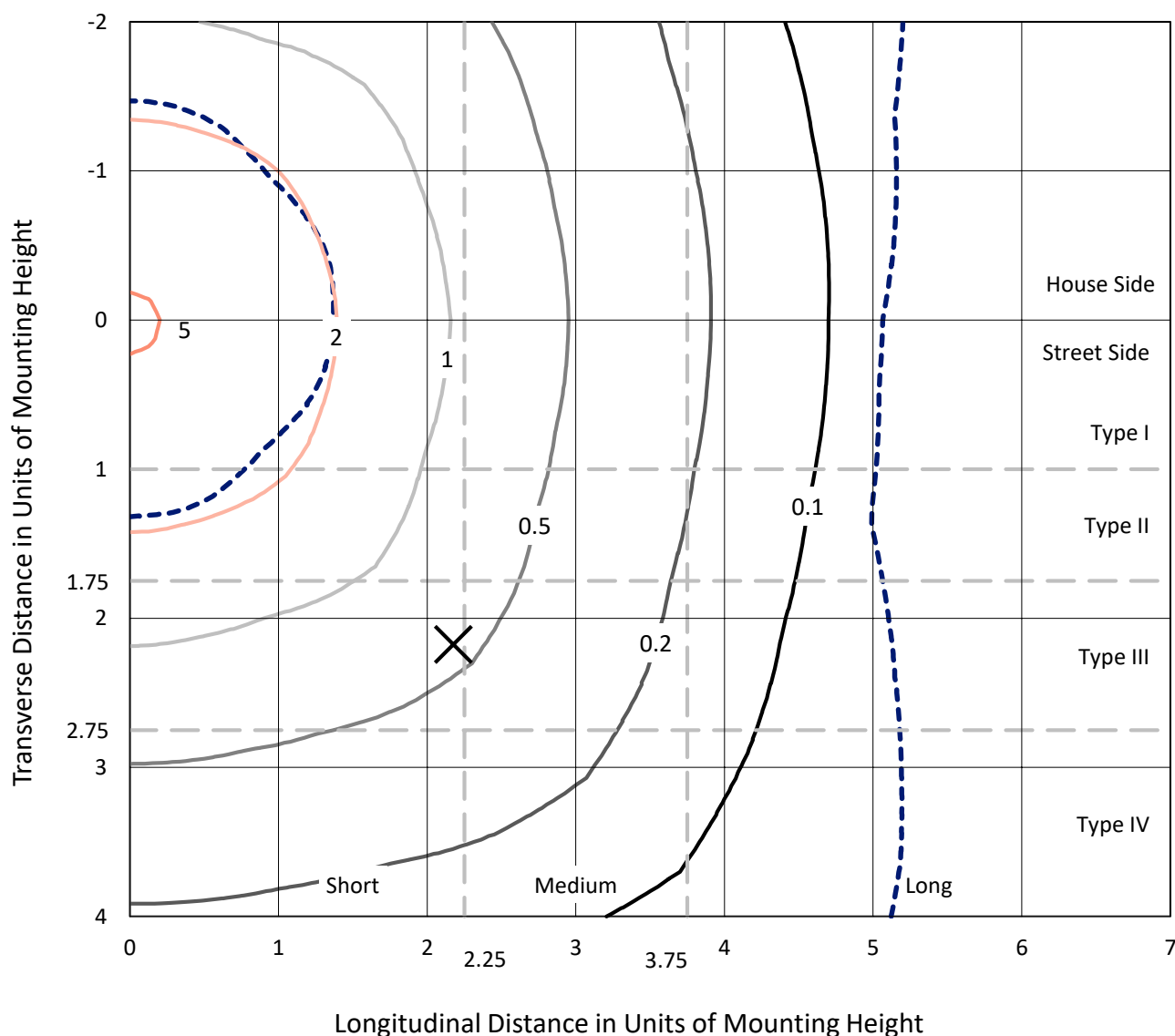


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

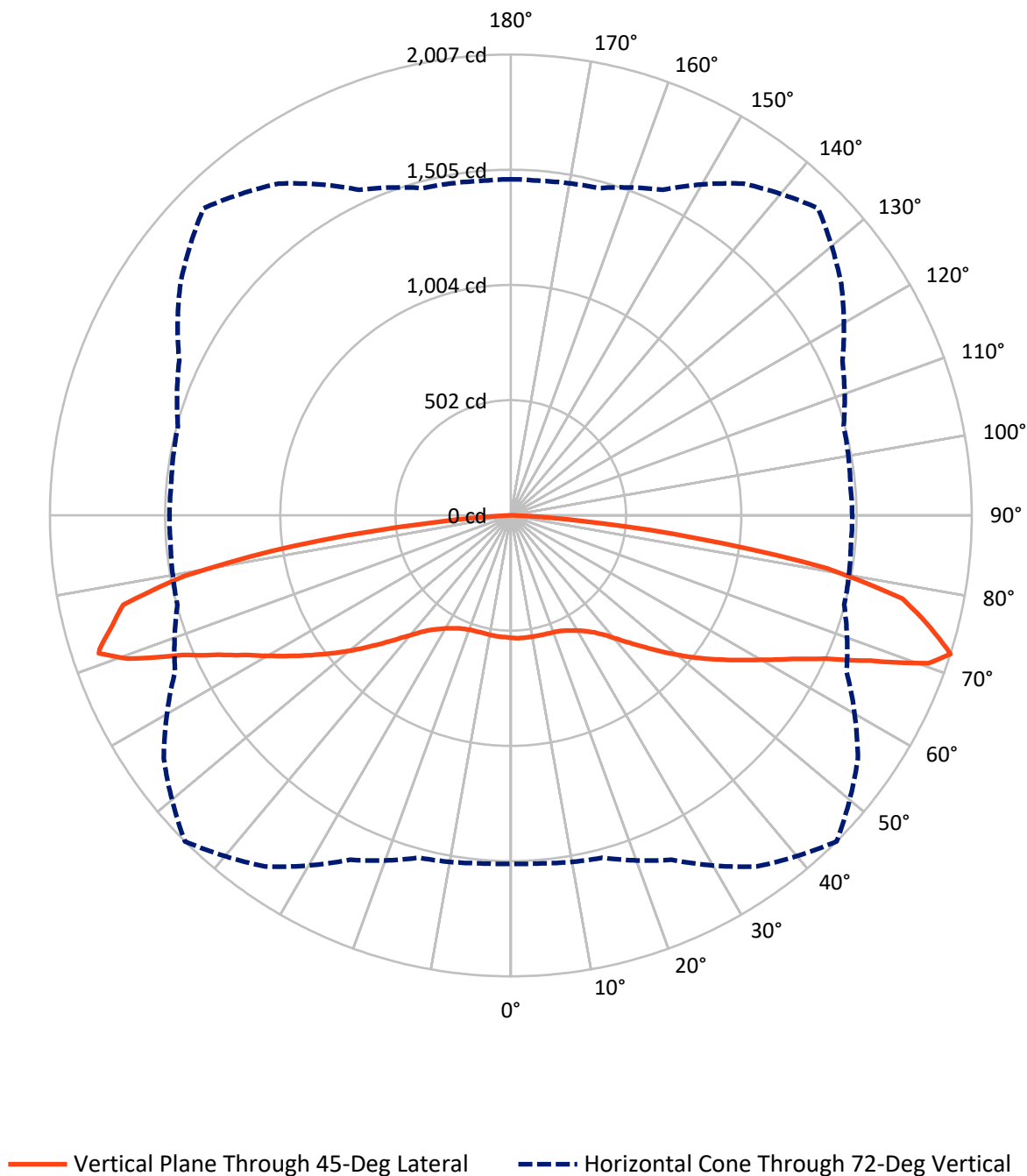


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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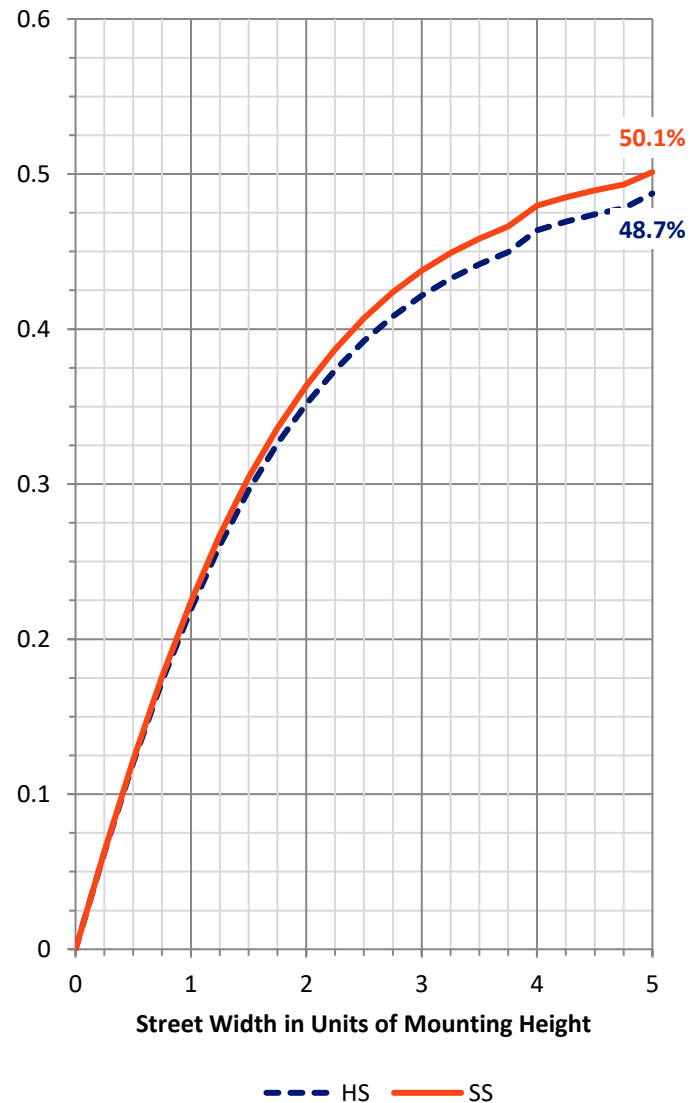
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2785.5	0.0	2785.5
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	2862.9	0.0	2862.9
	% Fixture	50.7	0.0	50.7
Total	Lumens	5648.3	0.0	5648.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	0.9
10°-20°	151.2	2.7
20°-30°	254.0	4.5
30°-40°	386.6	6.8
40°-50°	611.2	10.8
50°-60°	933.5	16.5
60°-70°	1367.7	24.2
70°-80°	1553.8	27.5
80°-90°	339.4	6.0
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°	5648.3	100.0
0°-180°	5648.3	100.0

Coefficient of Utilization



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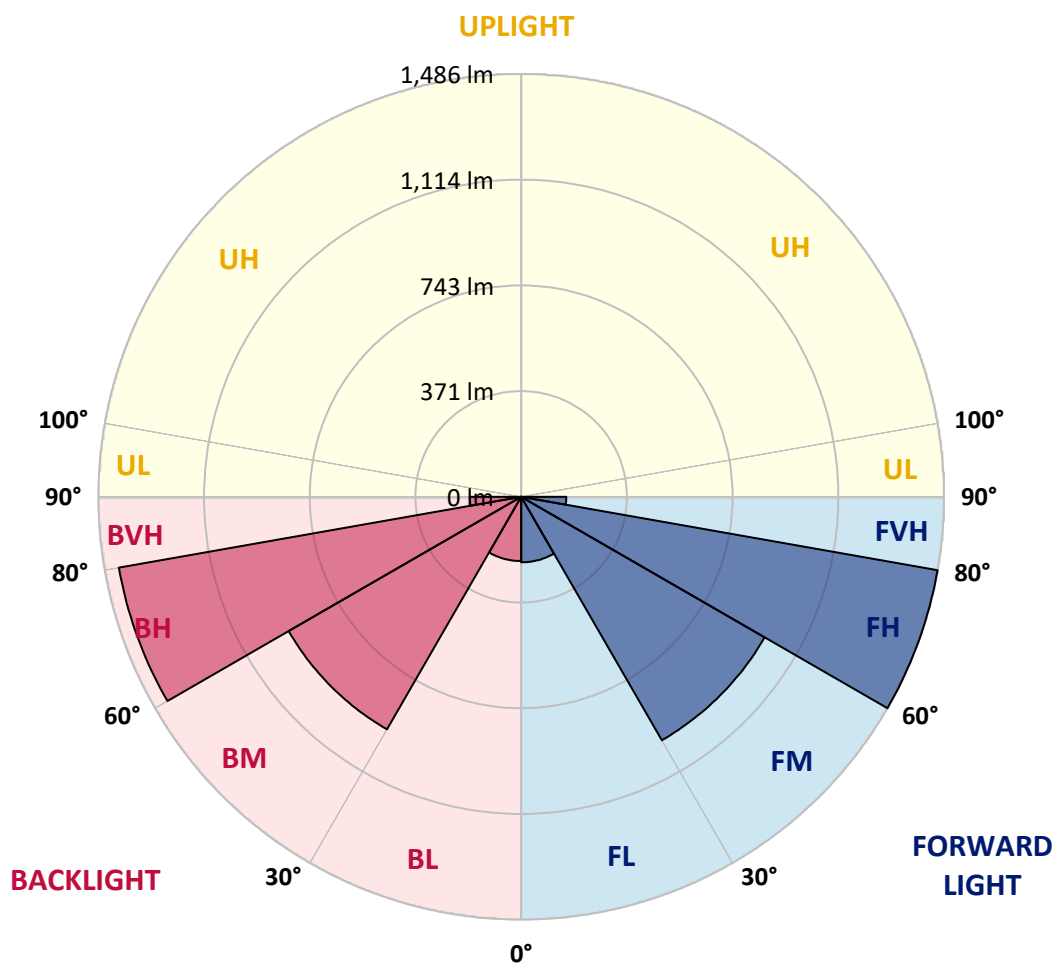
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.3	4.1			
FM	(30°-60°)	987.9	17.5			
FH	(60°-80°)	1485.9	26.3			G1/1800
FVH	(80°-90°)	158.7	2.8			G2/225
BL	(0°-30°)	225.8	4.0	B1/500		
BM	(30°-60°)	943.5	16.7	B1/1000		
BH	(60°-80°)	1435.5	25.4	B3/2500		G1/1800
BVH	(80°-90°)	180.6	3.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4
2.5°	537.8	537.8	536.3	535.6	535.6	535.2	534.9	534.9	534.5	534.9	533.8
5°	538.5	538.5	537.0	536.3	536.0	535.6	535.6	534.9	534.5	534.9	533.8
7.5°	538.5	538.9	538.1	537.4	536.3	536.0	535.6	534.5	534.5	533.8	533.4
10°	540.0	541.1	539.6	538.5	537.0	536.3	535.2	534.5	534.1	533.4	533.4
12.5°	541.1	542.2	540.7	539.6	538.1	537.0	535.6	534.5	533.8	532.7	533.0
15°	542.5	543.6	542.2	540.7	539.2	537.8	536.3	534.9	533.8	533.0	533.0
17.5°	543.3	544.4	542.9	541.4	540.3	539.6	537.8	535.6	534.1	533.4	533.4
20°	544.4	545.5	544.4	543.6	542.5	542.2	540.3	537.8	536.0	534.9	534.5
22.5°	546.9	547.6	547.3	547.3	547.3	546.9	545.5	541.4	539.2	537.4	537.0
25°	553.1	552.8	553.5	554.2	554.6	555.3	553.1	548.7	545.8	542.9	542.5
27.5°	563.4	563.7	564.1	565.5	567.0	567.4	565.2	560.4	556.0	552.0	551.7
30°	575.0	575.0	576.5	579.4	580.9	582.0	579.8	573.9	568.5	564.5	563.7
32.5°	591.9	593.3	594.0	597.3	600.3	601.3	598.1	591.9	585.6	580.5	579.4
35°	616.0	618.2	618.9	621.8	625.1	625.5	622.5	615.6	609.0	602.1	602.4
37.5°	649.9	650.3	652.1	652.9	659.1	659.1	654.3	648.1	641.5	635.3	633.5
40°	695.2	695.6	696.3	695.2	702.5	704.7	698.5	689.0	682.8	674.8	673.7
42.5°	744.6	748.2	747.9	746.0	753.3	758.1	750.4	739.4	732.9	724.5	723.0
45°	805.6	804.8	801.6	805.6	814.0	819.1	809.6	795.7	788.8	778.2	777.8
47.5°	864.8	864.0	858.9	861.8	877.5	885.9	872.1	856.4	847.2	841.0	836.3
50°	921.0	926.1	919.6	925.8	946.2	957.6	944.8	919.9	909.0	899.5	896.9
52.5°	987.1	990.1	984.2	994.1	1016.7	1033.2	1015.6	983.5	972.5	961.9	958.7
55°	1054.7	1053.3	1050.4	1061.3	1089.1	1108.4	1089.4	1050.7	1034.6	1026.6	1026.6
57.5°	1121.2	1122.0	1115.0	1128.2	1163.2	1188.8	1165.1	1117.6	1097.8	1088.7	1091.6
60°	1192.5	1192.5	1181.9	1193.9	1242.9	1275.4	1239.6	1185.2	1163.6	1158.1	1158.5
62.5°	1272.5	1269.6	1257.9	1272.8	1332.4	1375.5	1330.6	1262.6	1234.5	1234.5	1237.0
65°	1364.9	1360.2	1356.1	1373.3	1450.4	1503.0	1443.8	1358.0	1333.1	1330.2	1335.0
67.5°	1497.9	1503.0	1492.8	1515.4	1620.6	1689.3	1599.5	1488.8	1462.5	1459.9	1471.6
70°	1617.7	1612.6	1625.8	1689.7	1832.9	1928.6	1803.7	1633.4	1558.2	1542.8	1547.6
72°	1516.9	1520.9	1543.2	1654.3	1866.5	2007.2	1845.0	1613.3	1503.0	1486.9	1486.6
72.5°	1493.5	1496.4	1515.4	1622.1	1842.4	1986.4	1824.1	1587.8	1483.6	1469.8	1469.0
75°	1370.8	1376.6	1406.6	1510.3	1733.9	1869.4	1717.1	1496.1	1381.7	1355.4	1360.9
77.5°	1167.6	1179.7	1210.0	1329.5	1591.8	1743.4	1580.5	1326.2	1198.0	1178.6	1172.4
80°	856.7	840.6	895.4	1001.4	1188.1	1396.7	1205.3	999.2	866.2	830.8	839.6
82.5°	291.5	298.5	385.1	514.0	652.1	815.4	692.3	500.5	368.6	324.1	304.3
85°	35.4	38.4	59.9	109.2	205.3	296.7	209.7	111.1	69.0	42.4	37.3
87.5°	17.2	18.3	25.6	27.4	34.0	28.9	34.3	21.9	20.8	12.8	10.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4	533.4
2.5°	533.4	532.7	532.3	531.6	530.8	530.8	530.8	530.8	530.8	531.2
5°	533.4	532.7	532.3	531.2	530.5	530.5	530.1	530.5	530.1	530.5
7.5°	533.4	532.3	531.2	530.1	529.4	529.7	529.0	528.6	529.0	529.0
10°	533.0	531.2	529.7	528.6	528.3	527.9	527.9	527.6	528.3	527.9
12.5°	532.7	530.5	528.6	527.2	526.8	526.8	526.8	526.8	527.9	527.6
15°	532.3	530.1	528.3	526.5	526.1	526.8	526.8	527.6	528.3	528.3
17.5°	532.7	530.1	527.9	526.5	526.5	527.2	527.6	528.6	529.7	529.0
20°	534.1	531.2	529.4	527.9	528.6	529.4	529.4	530.1	531.2	530.5
22.5°	536.3	534.1	532.7	532.3	533.4	533.8	533.4	533.0	533.4	532.7
25°	541.4	539.2	538.1	539.6	540.7	540.3	538.9	537.4	536.7	536.3
27.5°	550.9	549.1	548.7	550.6	551.7	549.8	547.3	545.1	544.4	543.3
30°	562.6	561.5	562.6	564.5	564.8	561.9	558.2	555.0	553.9	553.9
32.5°	578.0	576.9	579.4	582.4	583.1	579.1	573.2	568.8	565.9	565.5
35°	600.3	599.5	600.3	603.9	603.5	599.5	592.9	587.8	584.9	584.9
37.5°	631.3	630.6	628.8	632.4	632.0	626.6	619.6	615.2	611.9	612.3
40°	671.9	670.8	668.6	669.3	672.2	664.9	656.2	650.3	649.9	649.9
42.5°	720.5	715.3	716.1	720.5	718.3	709.5	701.5	696.3	696.3	696.0
45°	773.4	771.6	770.9	772.3	774.2	767.2	753.7	747.9	747.5	747.5
47.5°	834.8	825.7	827.5	831.1	835.5	826.8	809.6	802.7	801.6	801.9
50°	894.7	885.2	887.0	894.7	903.1	889.2	868.0	859.6	858.2	858.9
52.5°	956.8	948.8	948.8	961.6	972.5	955.4	928.7	918.5	918.5	918.1
55°	1022.6	1011.6	1016.0	1032.5	1045.6	1024.8	991.9	983.9	977.7	980.2
57.5°	1088.0	1077.0	1080.7	1105.9	1122.3	1097.5	1056.2	1039.4	1035.7	1035.0
60°	1154.8	1142.4	1146.8	1186.3	1205.6	1172.7	1112.1	1091.6	1088.3	1088.0
62.5°	1229.0	1220.2	1226.8	1272.5	1294.8	1248.0	1171.6	1148.3	1149.4	1146.8
65°	1321.4	1314.5	1325.8	1381.7	1409.1	1340.4	1248.7	1221.7	1225.0	1224.6
67.5°	1453.7	1445.3	1452.2	1530.4	1554.9	1466.8	1355.8	1329.1	1334.2	1342.6
70°	1536.6	1542.8	1605.3	1714.9	1782.1	1692.3	1545.4	1495.3	1497.9	1499.0
72°	1484.7	1500.5	1593.2	1756.9	1891.7	1763.9	1564.0	1475.2	1462.1	1463.6
72.5°	1470.9	1482.9	1576.1	1739.4	1882.6	1748.5	1543.9	1459.9	1438.7	1439.4
75°	1366.4	1389.4	1478.9	1648.8	1802.2	1671.4	1466.5	1377.0	1360.5	1360.5
77.5°	1186.3	1218.4	1310.1	1548.7	1732.8	1590.3	1368.2	1257.5	1240.7	1234.5
80°	872.8	919.9	1010.2	1245.8	1444.6	1314.5	1126.3	1012.4	986.1	976.6
82.5°	343.8	384.3	536.0	750.4	952.1	810.3	612.7	511.1	429.6	420.9
85°	42.7	69.0	135.2	247.3	378.1	268.9	160.4	84.0	45.3	38.0
87.5°	12.4	23.4	25.6	41.6	49.3	45.3	28.5	25.6	14.2	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)